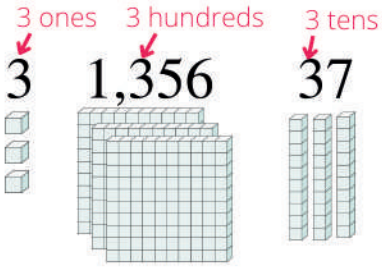
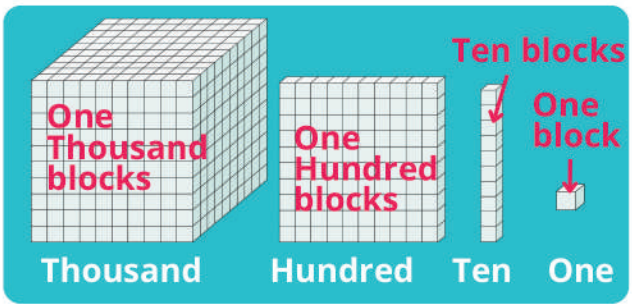
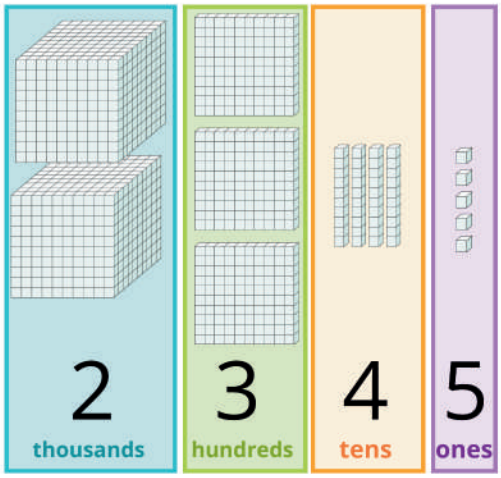
Date _____

What is Place Value?

The place of a digit in a number determines its value. For example, the number 3 has a different value in each of the following numbers:







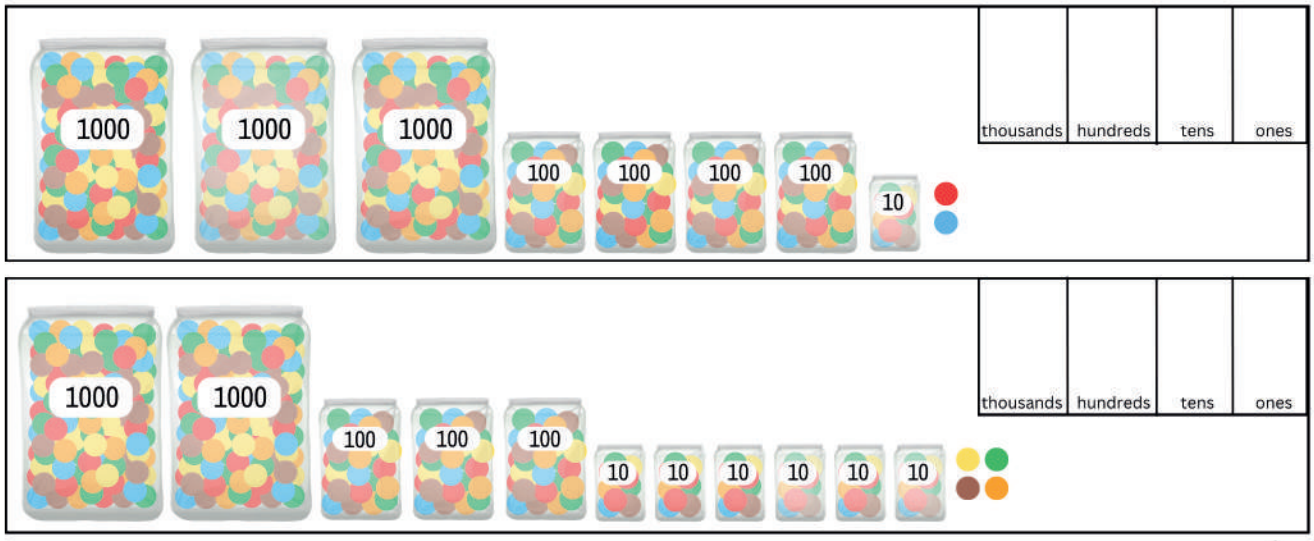
Two thousand three hundred forty-five

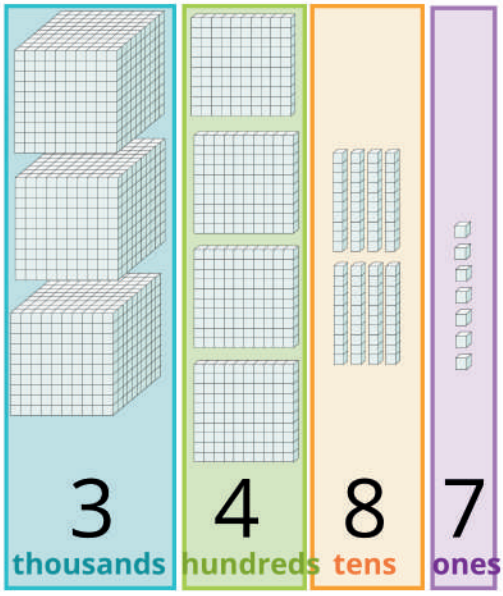
2000 + 300 + 40 + 5

All about the number 2,345:

1. How many ones are in this number? _____
2. How many hundreds are in this number? _____
3. How many thousands are in this number? _____
4. How many tens are in this number? _____
5. Which number is in the hundreds place? _____
6. Which number is in the thousands place? _____
7. Which number is in the ones place? _____

How many chocolate candies? Read each number aloud.





All about the number 3,487:

1. How many ones are in this number? _____
2. How many hundreds are in this number? _____
3. How many thousands are in this number? _____
4. How many tens are in this number? _____
5. Which number is in the hundreds place? _____
6. Which number is in the thousands place? _____
7. Which number is in the ones place? _____

Three thousand foour hundred eighty-seven

3000 + 400 + 80 + 7


penny 1¢


dime 10¢


nickel 5¢


quarter 25¢

How much money is this? _____¢

You have 2 dimes and your sister has 7 nickels.

You _____¢

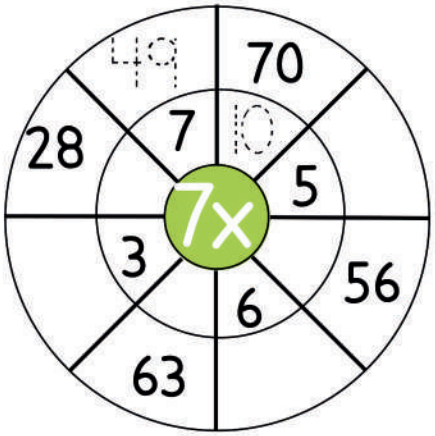
Sister _____¢

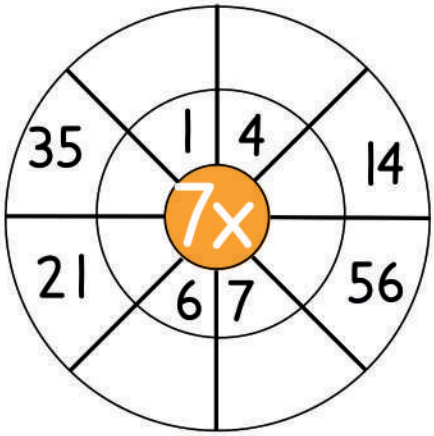
Who has more money? _____

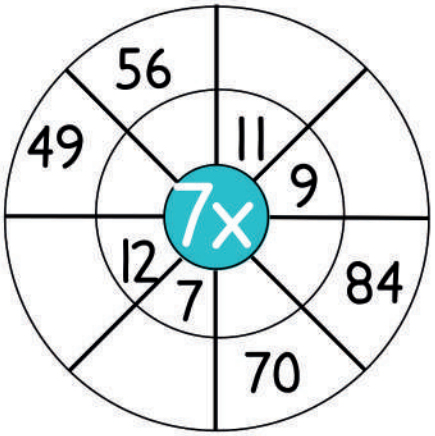
How much more? _____¢

How much money do you have altogether? _____¢

Fill in the blanks of these multiplication circles so that the outer circle is the PRODUCT of the middle circle and the innermost circle.





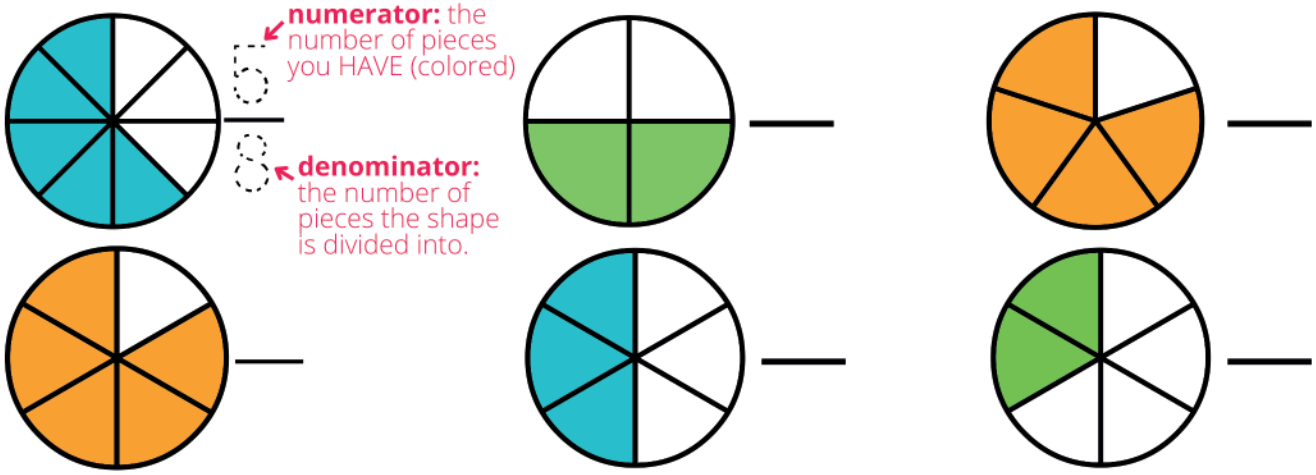


Date _____

Put these numbers in order from smallest to largest.

47 42 74	____ smallest	_____	_____ largest	
141 325 114 355	____ smallest	_____	_____	_____ largest
167 182 176 148	____ smallest	_____	_____	_____ largest
102 120 118 201 210	____ smallest	_____	_____	_____	_____ largest
95 209 232 290 223	____ smallest	_____	_____	_____	_____ largest

Label the fractions, then name them aloud.

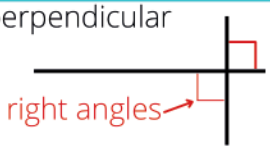
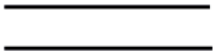
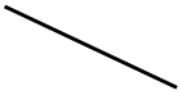


Continue each pattern:

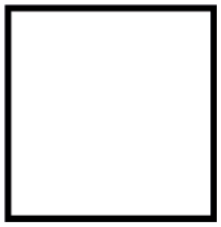
7, 14, 21, 28, 35, ____, ____, ____, ____, ____, ____

5, 10, 15, 20, 25, ____, ____, ____, ____, ____, ____, ____

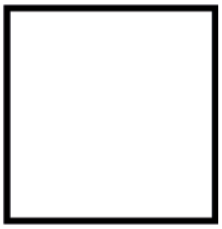
3, 13, 23, 33, 43, ____, ____, ____, ____, ____, ____, ____

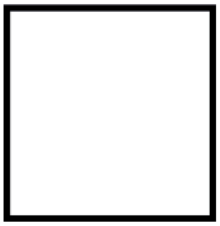
perpendicular	parallel	horizontal	vertical	oblique
				

Draw a HORIZONTAL line and a VERTICAL line to divide this square into FOURTHS.

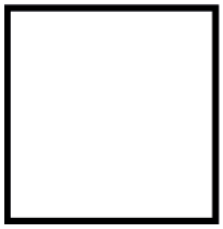


Draw 3 HORIZONTAL lines to divide this square into FOURTHS.





Use two OBLIQUE lines to divide this square into FOURTHS.



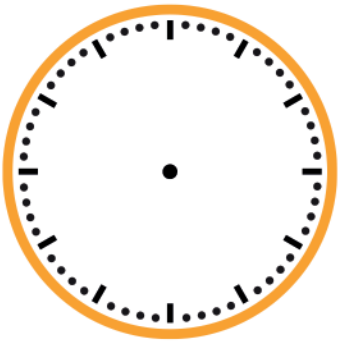
Draw 3 VERTICAL lines to divide this square into FOURTHS.

PARALLEL lines never intersect. Lines that intersect at RIGHT ANGLES (90 degrees) are PERPENDICULAR. Draw the following:

Parallel Lines	Perpendicular Lines (draw a square in the RIGHT ANGLE to show that it's perpendicular)	Intersecting Lines that are neither parallel nor perpendicular

Number each clock face, then draw the hands to show:

Half past eleven



Quarter before twelve

Twelve o'clock

Date _____

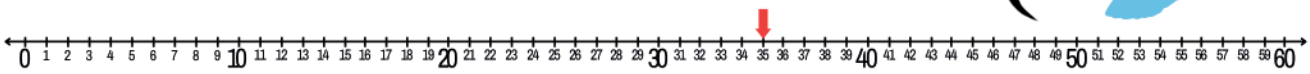
Rounding Steps:

1. Circle the digit in the place to which you are rounding.
2. Look at the digit in the next place to the right. If it's 4 or less let your circled digit rest. If it's 5 or more, let your circled digit soar one number higher.
3. Make all digits to the right of the circled digit zeros.

Round to the nearest TEN:

35 <u>4</u>0 _____ 67 _____ 55 _____

17 _____ 12 _____ 15 _____

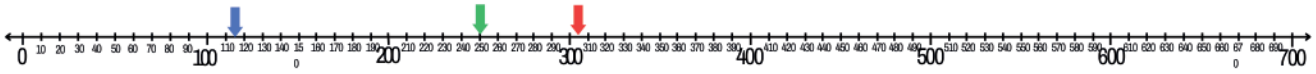


Round to the nearest HUNDRED:

305 300 _____ Four or less? Let the 3 rest. 564 _____ 675 _____ 353_____

113 100 _____ Four or less? Let the 1 rest. 421 _____ 231 _____ 649_____

250 300 _____ Five or more? Let the 2 soar (round UP to 3). 115 _____ 254 _____ 528_____

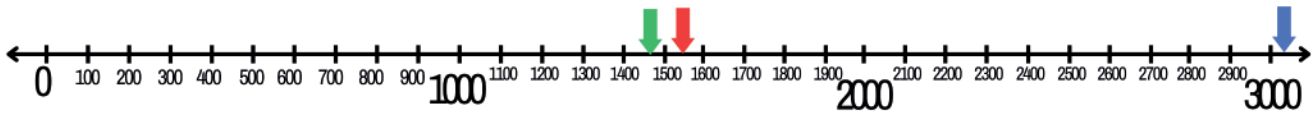


Round to the nearest THOUSAND:

1550 2000 _____ Five or more? Let the 1 soar (round UP). 1464 _____ 2751 _____ 2133_____

3012 3000 _____ Four or less? Let the 3 rest. 421 _____ 2310 _____ 649 _____

1488 1000 _____ Five or more? Let the 5 soar (round UP). 1110 _____ 1254 _____ 1728_____



1 7 4 3
thousands hundreds tens ones

1 1 0 7
thousands hundreds tens ones

Round to the nearest TEN _____

Round to the nearest HUNDRED _____

Round to the nearest THOUSAND _____

Round to the nearest TEN _____

Round to the nearest HUNDRED _____

Round to the nearest THOUSAND _____

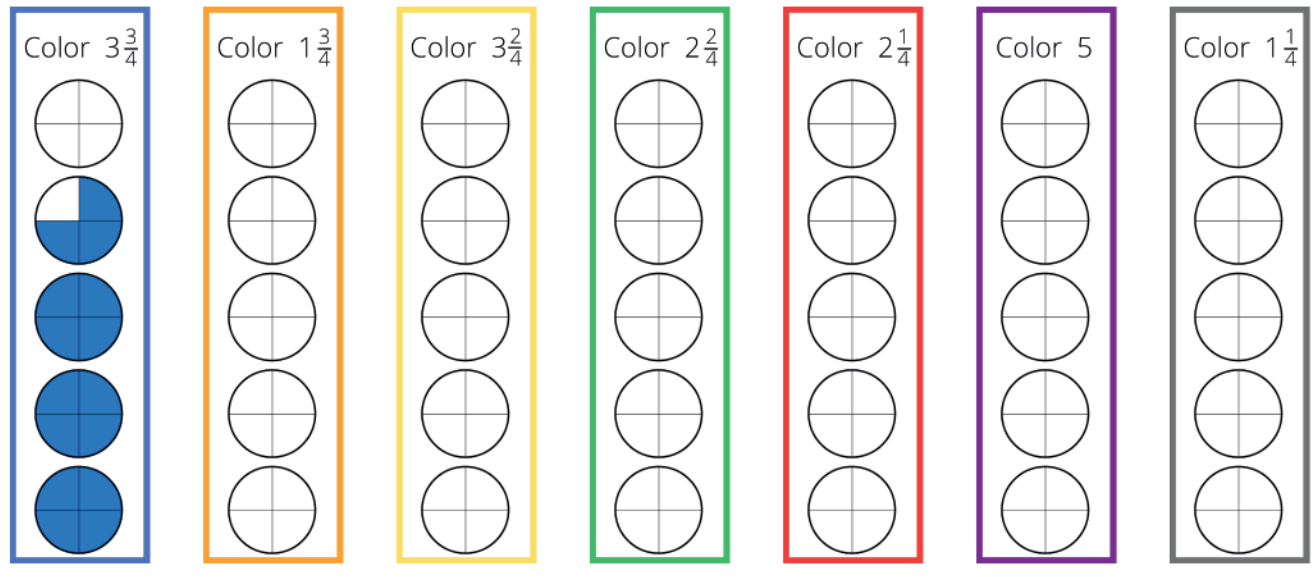
Color pieces of each shape to match the fraction in front of it.

What do each of these fractions have in common?_____

Fill in the boxes with the missing addends.

□□ + 21 = 88	□□ + 13 = 35	34 + □□ = 84	11 + □□ = 48	□□ + 20 = 55
24 + □□ = 56	□□ + 12 = 38	15 + □□ = 97	32 + □□ = 84	33 + □□ = 45

Color the MIXED NUMBER in each colored rectangle. Then draw an arrow that color pointing to that mixed number on the number line below.



I ♡ MATH

Trace all of the HORIZONTAL lines green. Trace all of the VERTICAL lines red. Trace all of the OBLIQUE lines blue.

Divide the heart into two equal halves with a VERTICAL line. Label each half with a fraction and color the LEFT half red.

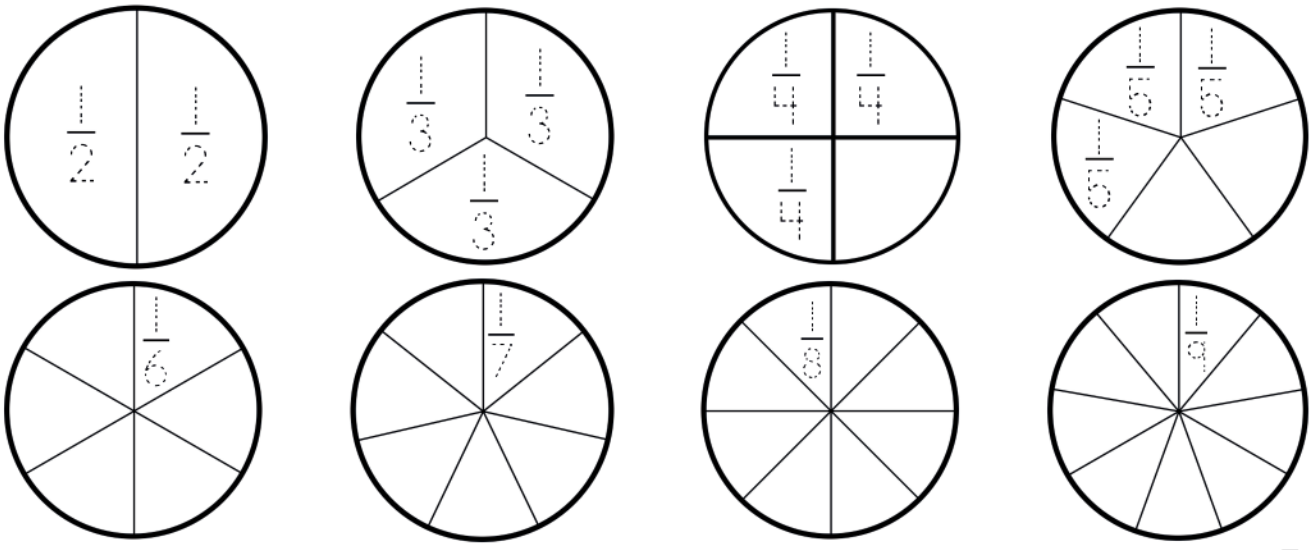
Insert the correct comparison symbol between the numbers to compare them.

202 ◌ 220		501	501	110	101
453	435	492	429	345	354

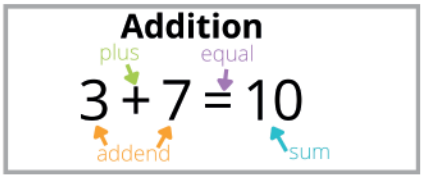
Order these numbers from smallest to largest.

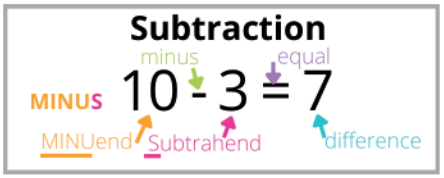
111	209	141	290	114	____ smallest	____	____	____	____ largest
89	102	98	201	210	____ smallest	____	____	____	____ largest
179	132	155	123	197	____ smallest	____	____	____	____ largest

Label each piece of each circle with the correct fraction. Remember, the DENOMINATOR (the bottom of each fraction) is the NUMBER of pieces the shape is divided into and the top of each fraction will be one.



Date _____





Fill in the missing addends or sum to complete each number sentence.

3 + ☐ = 10	1 + ☐ = 4	1 + 7 = ☐
☐ + 3 = 7	☐ + 0 = 9	☐ + 5 = 9
2 + ☐ = 9	2 + 8 = ☐	3 + ☐ = 8
4 + ☐ = 8	4 + ☐ = 5	2 + ☐ = 7

Find the sums without regrouping.

23 + 13	52 + 14	31 + 27	18 + 20	25 + 24

Find the differences without regrouping.

42 - 12	34 - 21	35 - 11	57 - 36	25 - 10

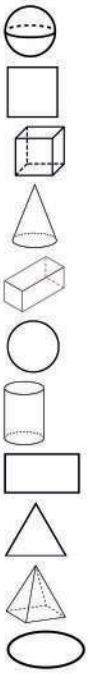
Find the sums with regrouping.

194 + 207 + 183	148 + 285 + 45	407 + 115 + 195	127 + 133 + 585	214 + 236 + 125
hundreds tens ones	hundreds tens ones	hundreds tens ones	hundreds tens ones	hundreds tens ones

Find the differences with regrouping.

63 - 28	51 - 25	44 - 19	30 - 11
tens ones	tens ones	tens ones	tens ones
tens ones	tens ones	tens ones	tens ones

Match each shape to its name and attributes.



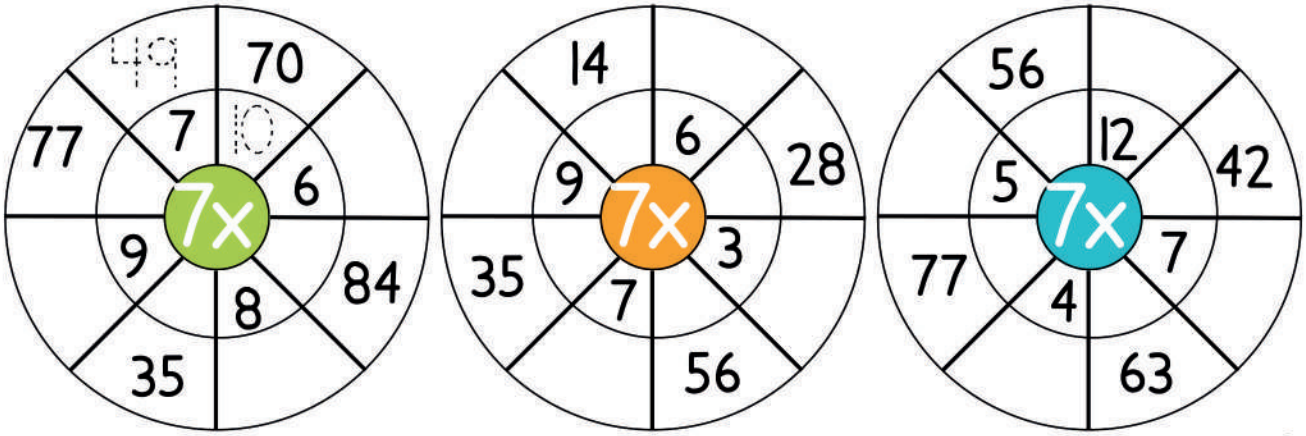
- Triangle
- Square
- Cone
- Sphere
- Cuboid
- Circle
- Cylinder
- Rectangle
- Pyramid
- Oval
- Cube

- 12 edges all the same length
- One vertex, one circular side
- No edges or vertices, 3D
- 8 vertices, only 2 sides are squares
- 3D with 2 circular ends
- 3 sides
- 4 sides, all the same length
- Closed, curved, 2D shape
- One vertex, one square side
- No edges or vertices, but not a circle
- 4 sides, not the same length

How much money is this?

$\$\_\_\_.\_\_\_$ dollars cents

Fill in the blanks of these multiplication circles so that the outer circle is the PRODUCT of the middle circle and the innermost circle.



Date _____

Find the sums with regrouping.

172 + 188	244 + 176	724 + 193	185 + 383	214 + 125
117 + 104	153 + 348	212 + 179	227 + 364	275 + 225
138 + 265	299 + 347	237 + 195	367 + 335	150 + 150

hundreds tens ones

Find the differences with regrouping.

50 - 25	61 - 27	38 - 29	62 - 38

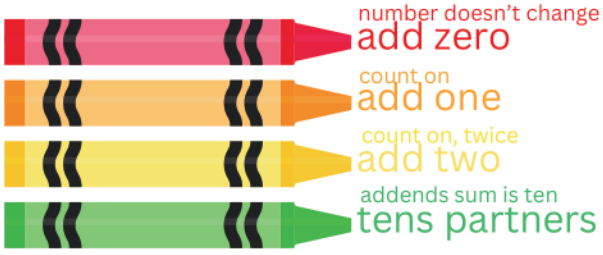
tens ones

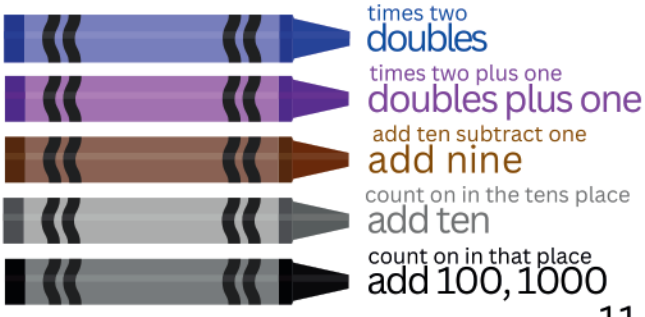
Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct.

7 ? 49 ? ? 56 56 49	7 ? 14 ? ? 28 49 8	7 ? 63 ? ? 6 21 18	7 ? 7 ? ? 72 56 9
7 ? 42 ? ? 45 63 30	7 ? 56 ? ? 6 14 24	7 ? 21 ? ? 70 70 21	7 ? 28 ? ? 18 21 24
7 ? 28 ? ? 32 28 32	7 ? 70 ? ? 45 35 90	7 ? 35 ? ? 36 42 30	7 ? 56 ? ? 45 63 40

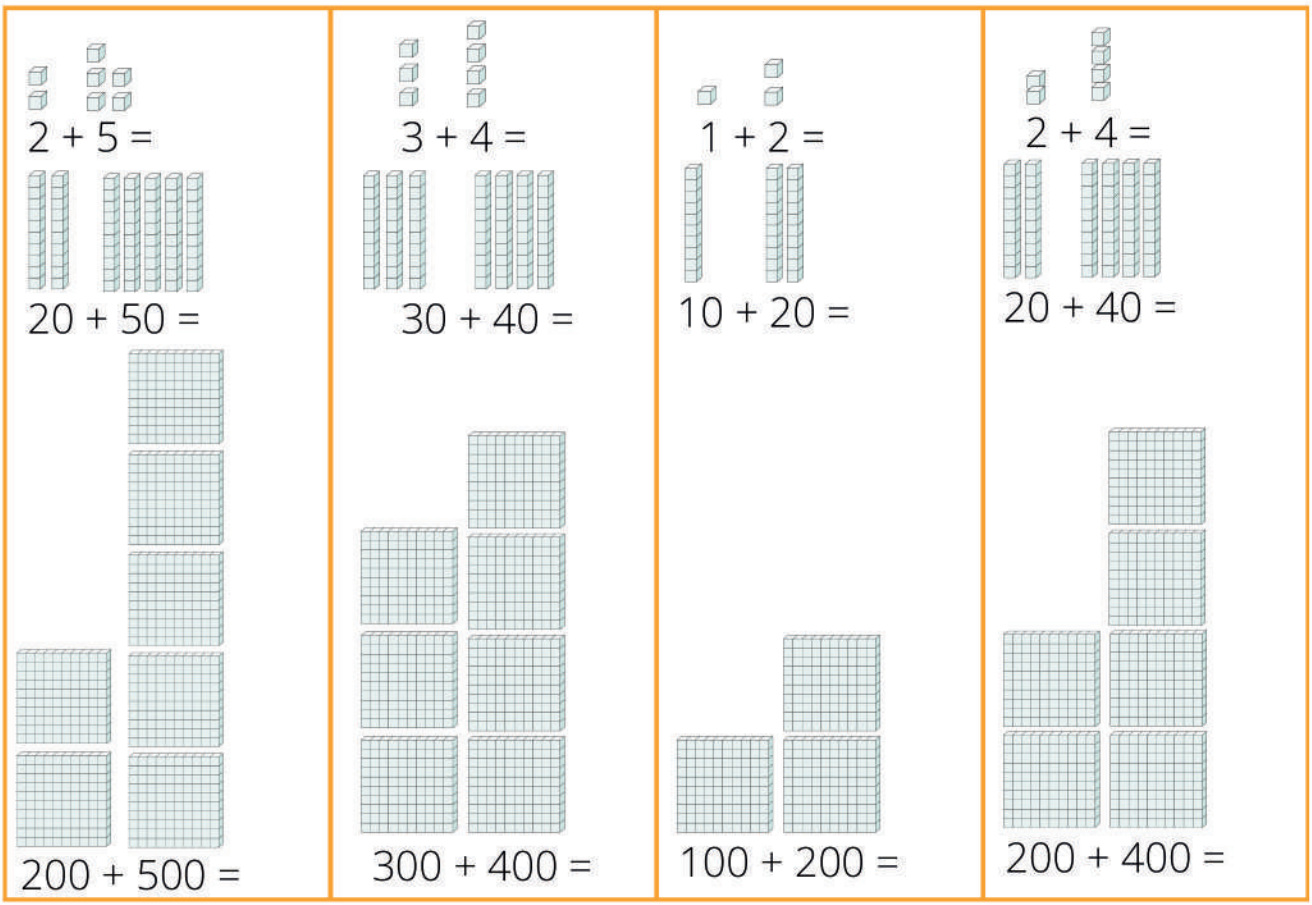
6 +6	2 +8	3 +7	8 +2	6 +4	6 +6	3 +3	5 +5	9 +9	4 +4	10 +10	8 +8	5 +2	7 +2	10 +1	3 +0
10 +10	7 +3	4 +6	10 +100	4 +6	4 +4	10 +10	7 +7	1 +1	3 +3	2 +2	5 +5	6 +6	3 +2	6 +2	7 +1
5 +5	8 +2	6 +4	7 +3	8 +2	5 +5	8 +8	4 +4	3 +3	5 +5	9 +9	6 +6	10 +10	7 +7	4 +2	1 +2
4 +4	2 +2	8 +8	5 +6	3 +7	3 +3	10 +10	7 +7	1 +1	4 +4	3 +3	2 +2	1 +1	9 +9	5 +5	9 +2
3 +3	7 +7	5 +5	10 +11	7 +3	6 +6	1 +1	4 +4	8 +8	2 +2	1 +1	6 +6	4 +4	5 +5	2 +2	3 +3
8 +8	1 +1	10 +10	6 +7	2 +8	2 +2	9 +9	1 +1	10 +10	6 +6	2 +2	5 +5	3 +3	1 +1	7 +7	4 +4
4 +4	9 +9	2 +2	8 +9	3 +7	10 +10	2 +2	5 +5	3 +3	7 +7	4 +4	6 +6	8 +8	3 +3	2 +2	1 +1
6 +6	3 +3	7 +7	3 +4	6 +4	8 +2	3 +7	7 +3	2 +8	8 +2	4 +6	2 +2	4 +4	1 +1	6 +6	10 +10
2 +2	10 +10	4 +4	5 +6	2 +8	3 +7	4 +6	3 +7	4 +6	3 +7	8 +2	2 +8	7 +7	4 +4	8 +8	3 +3
7 +7	5 +5	1 +1	9 +10	2 +3	8 +2	7 +3	2 +8	6 +4	2 +8	7 +3	4 +6	6 +4	6 +6	10 +10	4 +4
10 +10	4 +4	6 +6	6 +10	5 +6	4 +6	8 +2	7 +8	3 +4	6 +7	2 +8	4 +6	3 +7	10 +10	5 +5	7 +7
3 +9	6 +9	4 +9	3 +10	4 +10	7 +3	6 +4	6 +9	5 +10	8 +10	6 +4	7 +3	1 +2	8 +2	2 +9	6 +9
7 +9	5 +9	2 +9	10 +9	4 +9	6 +4	8 +2	5 +9	3 +9	10 +9	8 +2	4 +6	7 +9	5 +6	9 +10	10 +9

Write the answer to each problem in its space. Then color that space to match the list of addition tools below. If a problem could belong to multiple tools, wait to color it until you can see from the context what it should be. In this picture, 5+5 is a doubles fact.





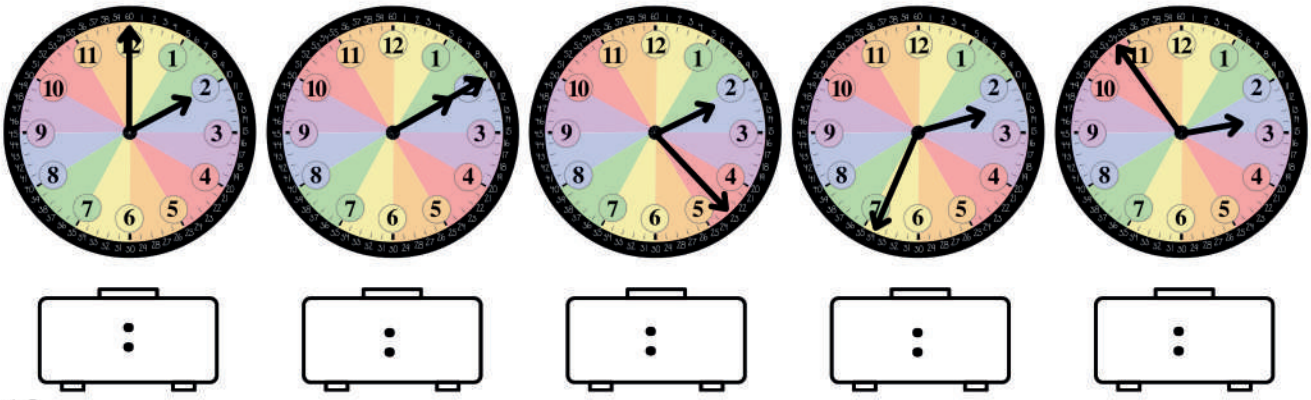
Date _____



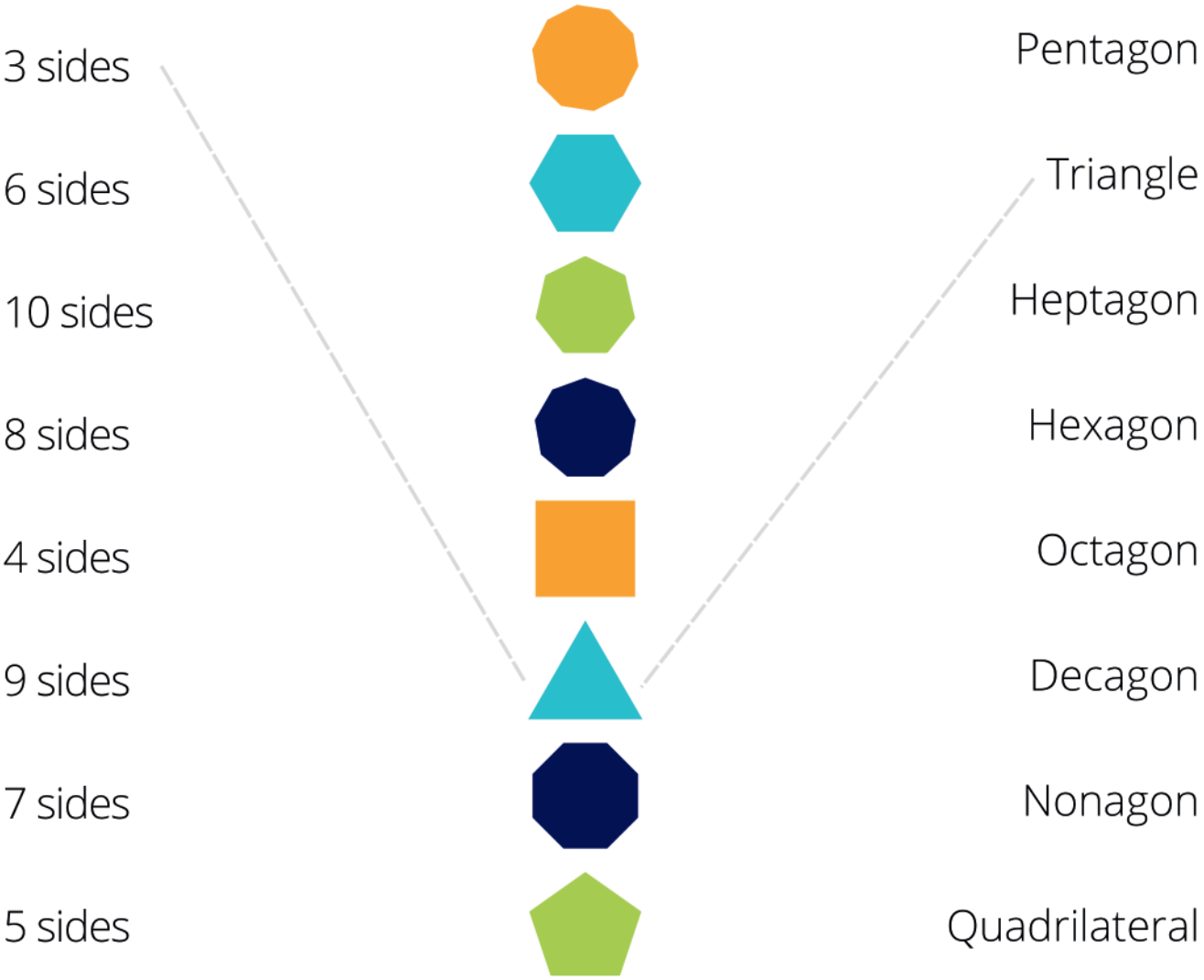
Find the sums.

3 + 2 = _____	6 + 9 = _____	8 + 5 = _____
30 + 20 = _____	60 + 90 = _____	80 + 50 = _____
300 + 200 = _____	600 + 900 = _____	800 + 500 = _____

What time is shown on these clocks? Write the time on the digital clock below.



Draw lines to match the polygons across all three columns.



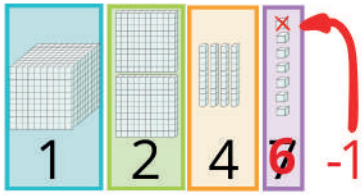
There are many types of quadrilaterals (shapes with FOUR sides). Draw lines to match each quadrilateral to it's most specific name.

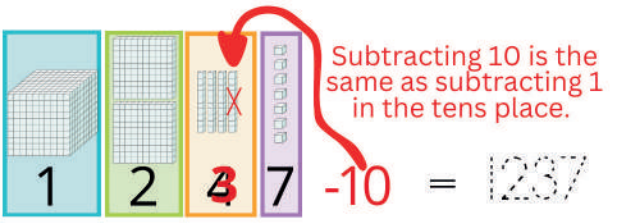
rectangle square parallelogram rhombus trapezoid

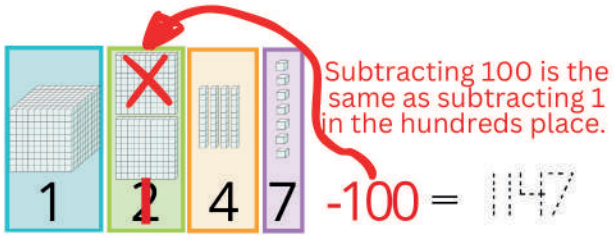
Geometry Riddle:

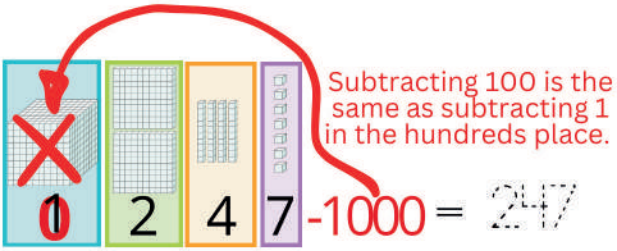
What's a polygon?

Date _____





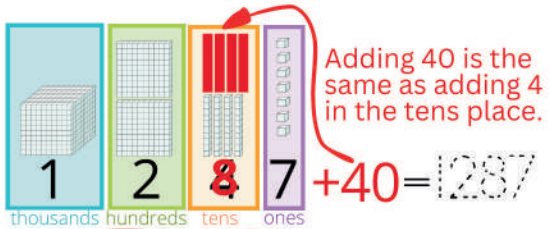


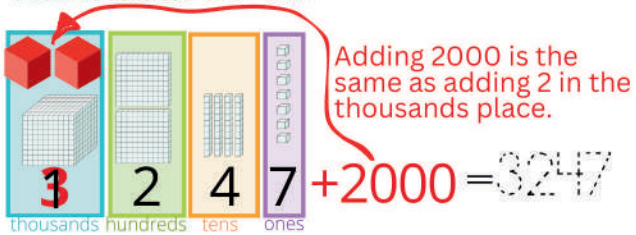


Find the SUMS and DIFFERENCES by adding or subtracting mentally.

23 + 10 = _____ add 1 in the tens place	777 - 100 = _____	111- 100 = _____
75 - 1 = _____ subtract 1	1445 + 1000 = _____	4045 - 1000 = _____
401 + 100 = _____ add 1 in the hundreds place	134 - 10 = _____	1027 - 10 = _____
234 + 100 = _____ add 1 in the hundreds place	241 + 1000 = _____	2410 + 1000 = _____
55 - 10 = _____ subtract 1 in the tens place	358 - 10 = _____	598 - 10 = _____
29 + 1 = _____ add 1	321 + 10 = _____	300 + 10 = _____
193 - 10 = _____ subtract 1 in the tens place	2755 - 100 = _____	2550 - 1000 = _____
275 + 100 = _____ add 1 in the hundreds place	825 + 1000 = _____	3105 + 1000 = _____
1303 + 1000 = _____ add 1 in the thousands place	1545 + 1000 = _____	1100 + 100 = _____

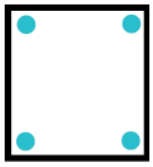
Find the sums by adding multiples of ten in the correct column.



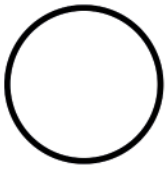


1342 + 200 = _____	add 2 in the hundreds place
3104 + 30 = _____	add 3 in the tens place
1505 + 50 = _____	add 5 in the tens place
1342 + 500 = _____	add 5 in the hundreds place
1272 + 400 = _____	add 4 in the hundreds place
2113 + 2000 = _____	add 2 in the thousands place
1004 + 300 = _____	add 3 in the hunreds place

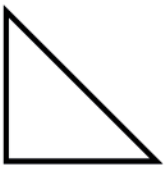
Draw a dot inside each angle. Count the numbers of angles in each shape.



____ angles



____ angles

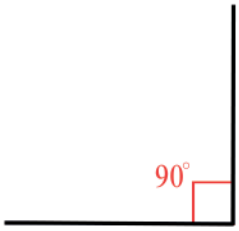


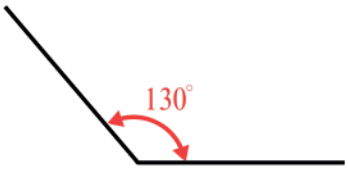
____ angles

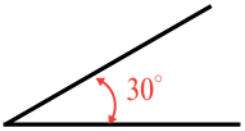
____ angles

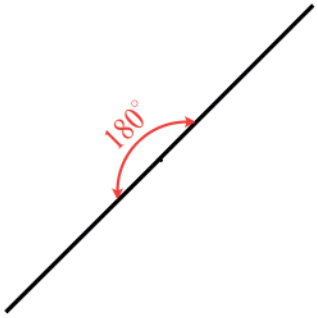
____ angles

Write straight, right, acute or obtuse below each angle.

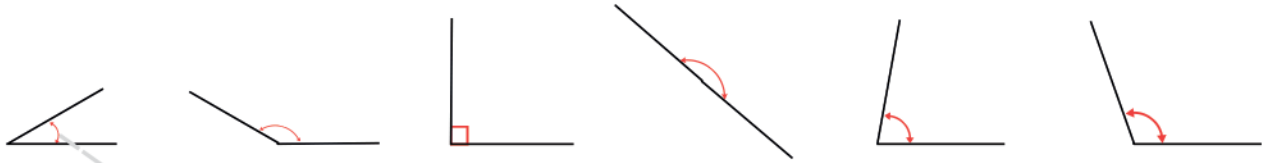








Draw lines to match each angle to the most correct measure.



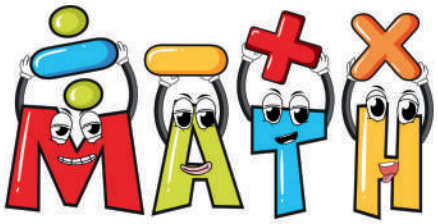
90° 80° 30° 110° 180° 150°

Trace the existing numbers, fill in the missing numbers and color the squares with EVEN numbers yellow.

		100	101						
				112					117

Date _____

Word Problem Steps:



1. Read the problem carefully.
2. Circle the question.
3. Underline the important information.
4. Cross out any information that doesn't matter.
5. Draw a picture and write a number sentence. Solve the problem and show your work.
6. Check. Re-read your problem and check your work.

I took my six kids to the library, where they each borrowed five books. I borrowed ten books. How many books did we borrow altogether?

Draw a picture:

Number Sentence 1:

_____ (number of kids) X _____ (books per kid) = _____ (kids books)

Number Sentence 2:

_____ (kid's books) + _____ (mom's books) = _____ (total books)

You read three books last week. One book had 383 pages, one book had 516 pages and one book had 209 pages. How many pages did you read last week?

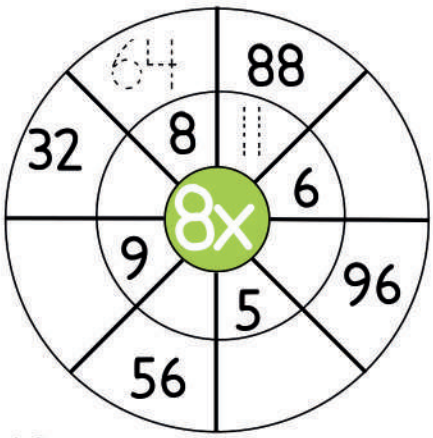
Draw a picture:

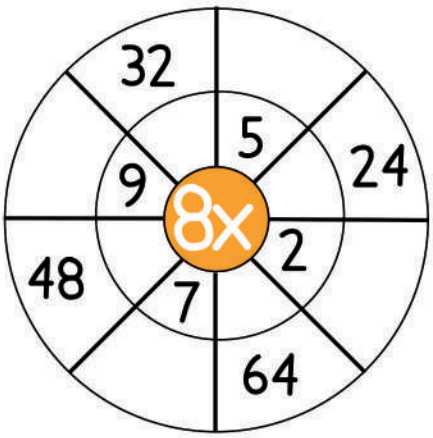
Number Sentence:

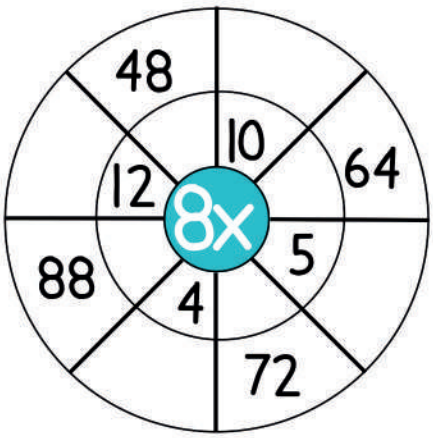
_____ + _____ + _____ = _____

Stack your numbers, lining up place values and find the sum.

Fill in the blanks of these multiplication circles so that the outer circle is the PRODUCT of the middle circle and the innermost circle.







Color the coins needed to buy the sailboat.

Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct.

8		48
		45
72	30	

8		64
		6
16	24	

8		24
		70
80	16	

8		16
		5
8	10	

8		32
		36
32	36	

8		80
		40
64	50	

8		40
		36
48	30	

8		48
		12
32	18	

8		56
		21
24	49	

8		16
		28
56	8	

8		72
		6
24	18	

8		64
		54
48	72	

width _____

length _____

Use a ruler to measure the length and width of this window in inches. Remember to write the units! Trace all horizontal lines purple.

- Trace all horizontal lines purple.
- Trace all vertical lines yellow.
- Trace all oblique lines green.
- Draw a red line of symmetry.
- What would be the measurements of a congruent shape? _____

Date _____

Each box holds a HALF DOZEN donuts. How many donuts do you have?

Write a number sentence as repeated addition, then as multiplication.

6 + 6 + ___ + ___ = _____ ← repeated addition

4 X 6 = _____ ← multiplication

number of boxes — donuts per box

Each bag has TEN jelly beans. How many jelly beans do you have?

10 + 10 + 10 + ___ + ___ + ___ + ___ + ___ = _____ ← repeated addition

_____ X _____ = _____ ← multiplication

number of bags — jelly beans per bag

Each watermelon slice has FIVE seeds. How many seeds are there?

5 + 5 + ___ + ___ + ___ + ___ + ___ + ___ + ___ + ___ = _____ ← repeated addition

_____ X _____ = _____ ← multiplication

number of slices — seeds per slice

Each bunch has THREE bananas. How many bananas do you have?

3 + 3 + ___ + ___ + ___ + ___ = _____ ← repeated addition

_____ X _____ = _____ ← multiplication

number of bunches — bananas per bunch

Find the products.

8 x 8 = ____
8 x 6 = ____
8 x 1 = ____
8 x 5 = ____
8 x 7 = ____
8 x 2 = ____
8 x 11 = ____
8 x 10 = ____
8 x 4 = ____
8 x 12 = ____
8 x 3 = ____
8 x 9 = ____

7 x 6 = ____
7 x 12 = ____
7 x 1 = ____
7 x 5 = ____
7 x 11 = ____
7 x 4 = ____
7 x 7 = ____
7 x 1 = ____
7 x 3 = ____
7 x 8 = ____
7 x 9 = ____
7 x 10 = ____

Find the quotients.

49 ÷ 7 = ___
64 ÷ 8 = ___
84 ÷ 7 = ___
72 ÷ 8 = ___
42 ÷ 7 = ___
56 ÷ 7 = ___
88 ÷ 8 = ___
48 ÷ 8 = ___
63 ÷ 7 = ___
28 ÷ 7 = ___
56 ÷ 8 = ___
96 ÷ 8 = ___

Trace the existing numbers, fill in the missing numbers and color the squares with EVEN numbers yellow.

					500				504
			502						

Complete these Fact Family houses.

Date _____

Multiplication

multiply equal

$3 \times 7 = 21$

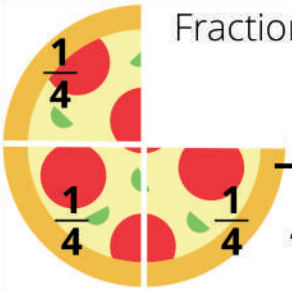
factors product

Division

divide equal

$21 \div 7 = 3$

dividend divisor quotient



Fractions are pieces of things.

$\frac{3}{4}$

numerator: the top number in a fraction, it tells you how many pieces you have. You have 3 pieces of pizza.

denominator: the bottom number in a fraction, it tells you HOW MANY pieces you cut your item into. This pizza is cut into 4 pieces.

Find products.

$8 \times 12 =$ ____

$8 \times 6 =$ ____

$8 \times 8 =$ ____

$8 \times 5 =$ ____

$8 \times 7 =$ ____

$8 \times 2 =$ ____

$8 \times 11 =$ ____

$8 \times 9 =$ ____

$8 \times 4 =$ ____

$8 \times 3 =$ ____

Find quotients.

$49 \div 7 =$ ___

$64 \div 8 =$ ___

$84 \div 7 =$ ___

$72 \div 8 =$ ___

$42 \div 7 =$ ___

$56 \div 7 =$ ___

$88 \div 8 =$ ___

$48 \div 8 =$ ___

$63 \div 7 =$ ___

$56 \div 8 =$ ___

Trace then write these important terms:

product

quotient

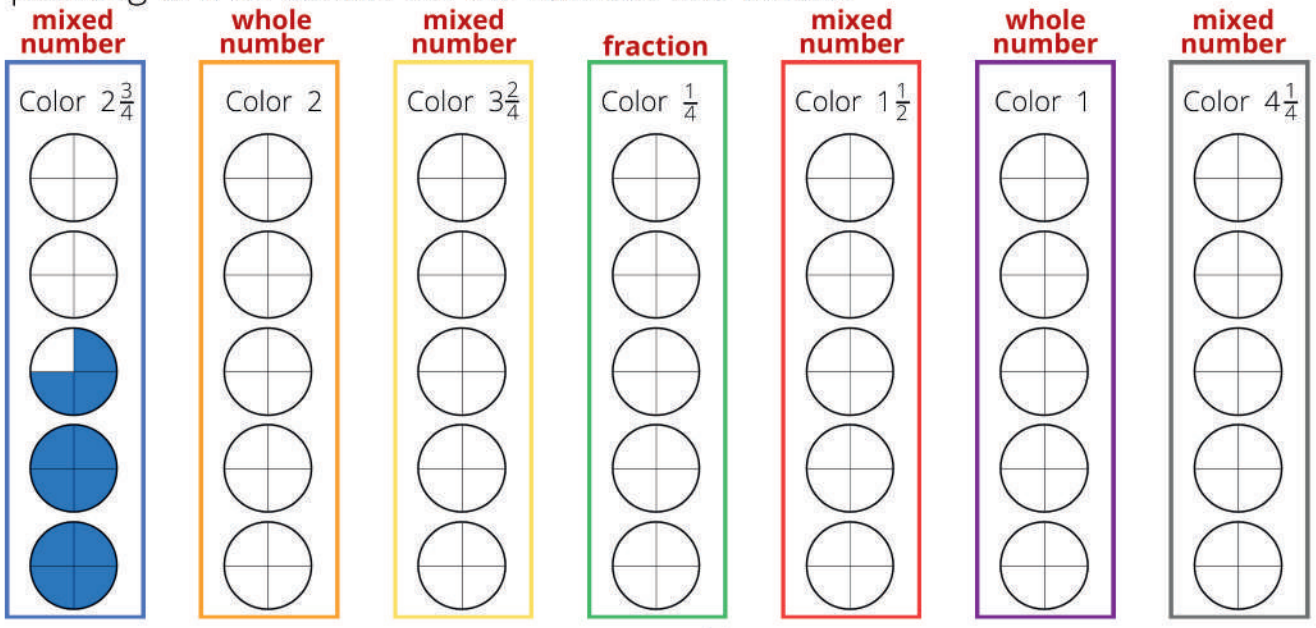
numerator

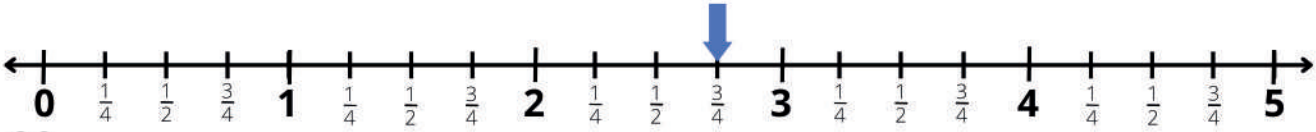
denominator

whole number

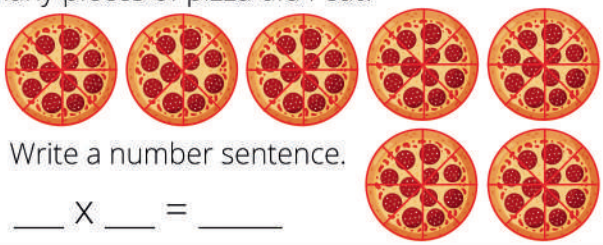
mixed number

Color the number in each colored rectangle. Then draw an arrow that color pointing to the number on the number line below.





I bought a pizza each night for a week. Each pizza was cut into eight pieces. I ate them all. How many pieces of pizza did I eat?



Write a number sentence.

___ x ___ = _____

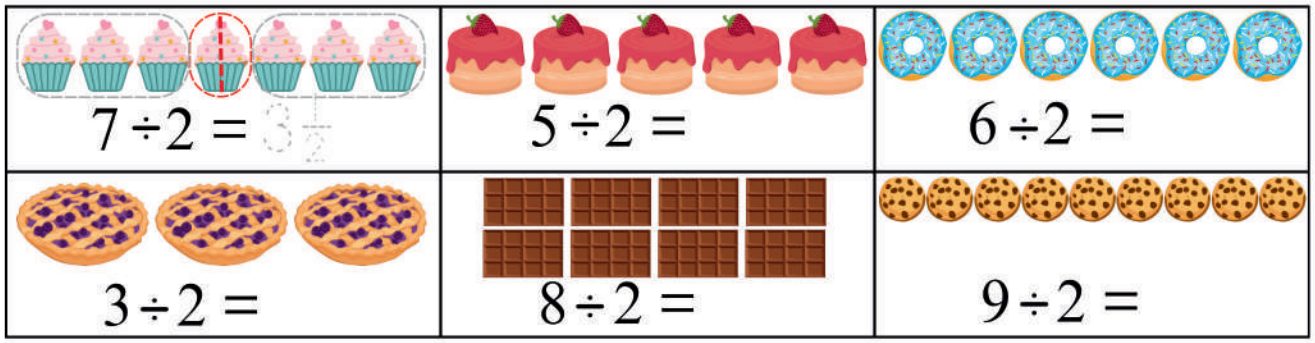
Your three cats each had FIVE kittens! Oh, my goodness! How many kittens are there?

Draw a picture:

Write a number sentence.

___ x ___ = _____

Draw lines to divide each set into equal halves. If there is a leftover, circle it in red, then use a vertical line to cut it in half.



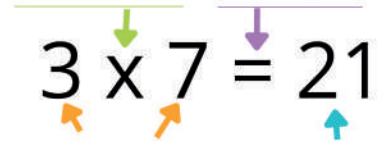
Do you see a pattern? Look at the boxes above with an EVEN dividend (6 and 8). Now look at the boxes with an ODD dividend (7, 5, 3 and 9). What's the pattern?

Jumbled up Greek prefix	Greek Prefix	Number of sides
treat	tetra	four
anon		
heax		
theap		
edca		
coat		
tenap		

Use these words to label the diagrams below:

factors	divisor
product	multiply
quotient	divide
dividend	equal

Multiplication



Division

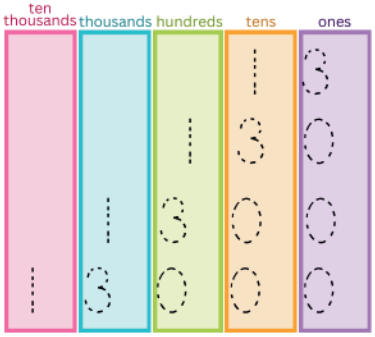
Date _____

13 x 1 =

13 x 10 =

13 x 100 =

13 x 1000 =

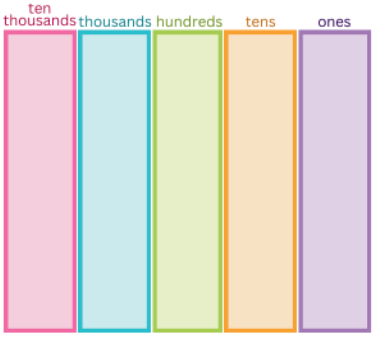


15 x 1 =

15 x 10 =

15 x 100 =

15 x 1000 =

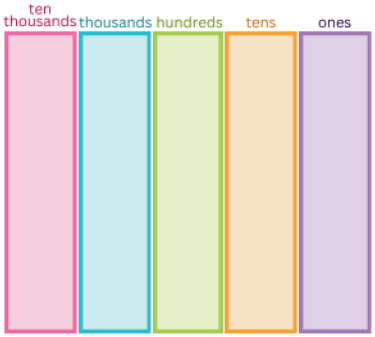


27 x 1 =

27 x 10 =

27 x 100 =

27 x 1000 =

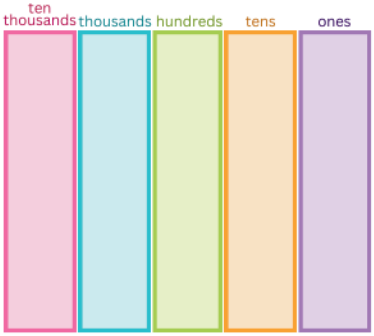


19 x 1 =

19 x 10 =

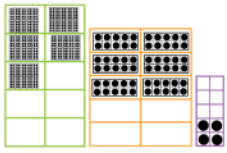
19 x 100 =

19 x 1000 =

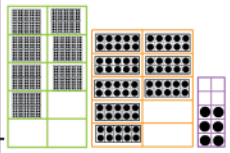


Find the differences by regrouping.

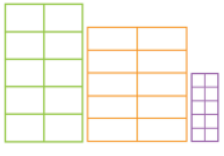
$$\begin{array}{r} 564 \\ -\,205 \\ \hline \end{array}$$



$$\begin{array}{r} 786 \\ -\,149 \\ \hline \end{array}$$



$$\begin{array}{r} 600 \\ -\,112 \\ \hline \end{array}$$



$$\begin{array}{r} 24 \\ -\,17 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 35 \\ -\,28 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 40 \\ -\,39 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 57 \\ -\,56 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 30 \\ -\,15 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 22 \\ -\,9 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 34 \\ -\,26 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 21 \\ -\,16 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 56 \\ -\,37 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 84 \\ -\,45 \\ \hline \end{array}$$

tens | ones

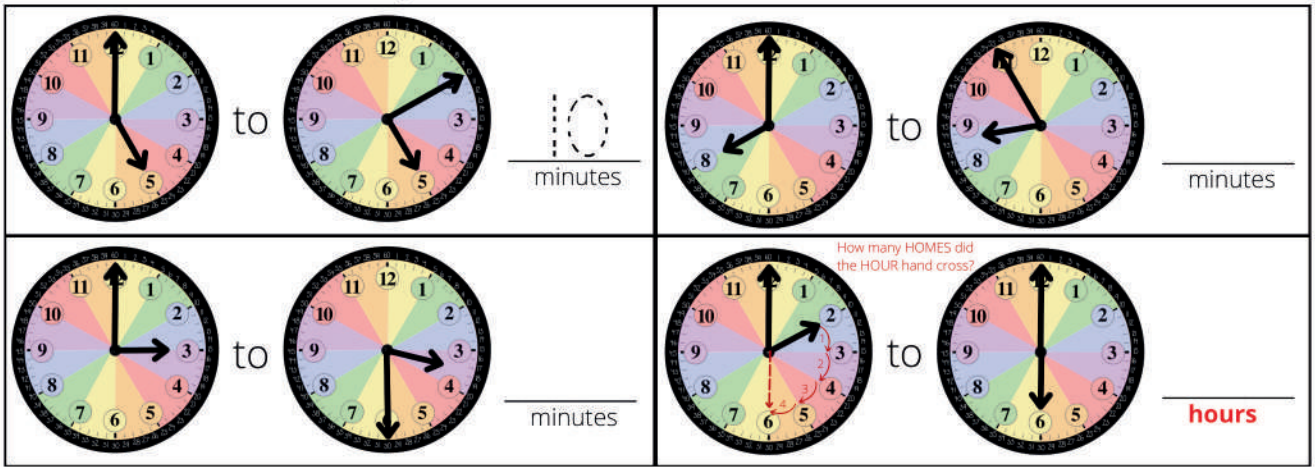
$$\begin{array}{r} 45 \\ -\,22 \\ \hline \end{array}$$

tens | ones

$$\begin{array}{r} 71 \\ -\,36 \\ \hline \end{array}$$

tens | ones

How much time has elapsed between each set of clocks?



10 minutes earlier	5 minutes earlier	current time	5 minutes later	10 minutes later
6:50	6:55	7:00	7:05	7:10
:	:	9:15	:	:
:	:	10:30	:	:

How much time has elapsed?

time	hours	minutes
9:30	1	30
10:00		
11:00		5
11:05		

1 hour and 35 minutes

time	hours	minutes
1:50		10
2:00	1	
3:00	1	
4:00		30
4:30		

2 hours and 40 minutes

time	hours	minutes
11:00		
12:15		

_____ hour and _____ minutes

time	hours	minutes
10:20		
12:10		

_____ hour and _____ minutes

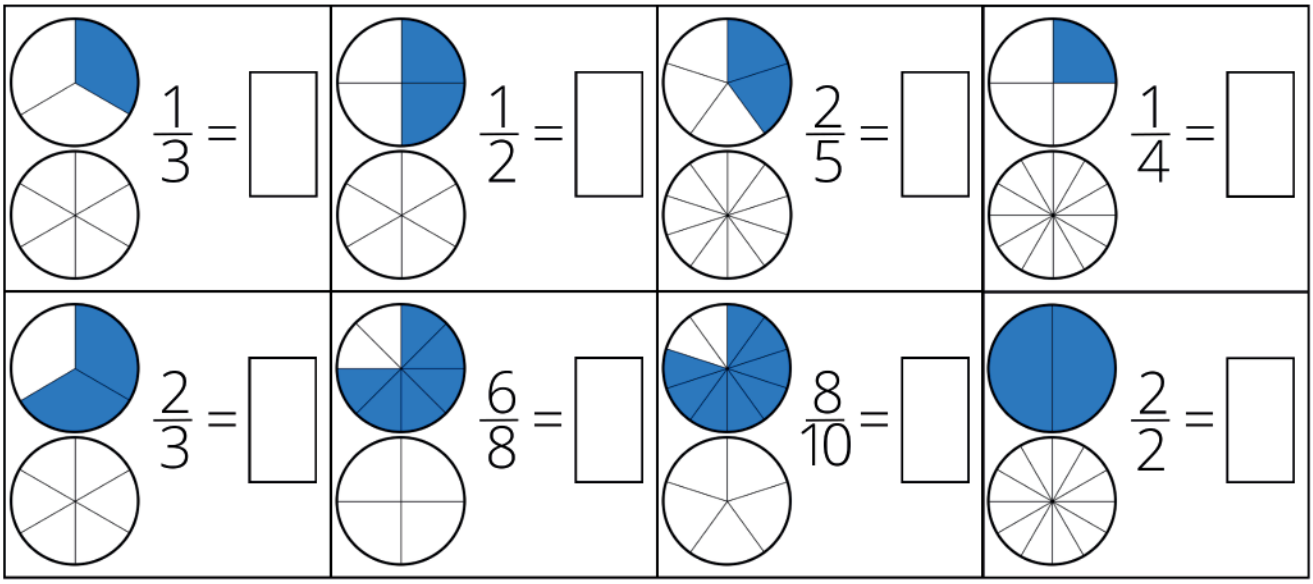
Date _____

Compare these fractions by drawing the correct comparison symbol (<, >, =) between them. Use your FRACTION BARS or FRACTION CIRCLES to help.

$\frac{1}{2} \; ? \; \frac{1}{4}$ $\qquad$ $\frac{1}{8} \quad \frac{1}{5}$ $\qquad$ $\frac{1}{2} \quad \frac{1}{4}$

$\frac{1}{3} \quad \frac{1}{5}$ $\qquad$ $\frac{1}{6} \quad \frac{1}{8}$ $\qquad$ $\frac{1}{2} \quad \frac{1}{4}$

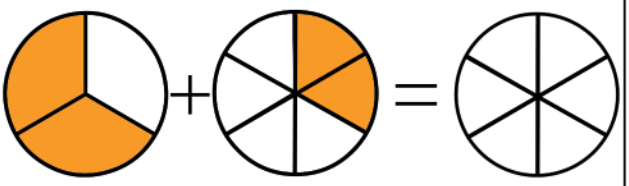
Color pieces of each bottom shape so it matches the top shape. Then write each equivalent fractions number sentence.



Draw lines to match:

product	$2\frac{2}{3}$
quotient	2
numerator	2 x 2 = 4
denominator	$\frac{2}{3}$
whole number	4 ÷ 2 = 2
mixed number	$\frac{2}{3}$

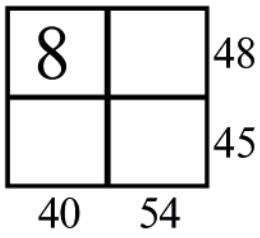
Here's the challenge from today's video:

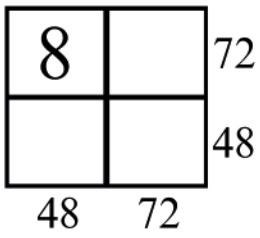


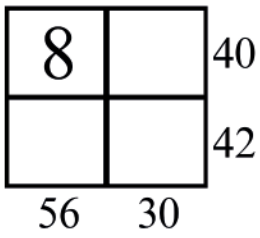
$$\frac{2}{3} + \frac{2}{6} =$$

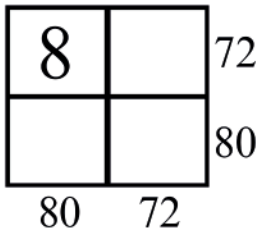
fraction **fraction** **whole number**

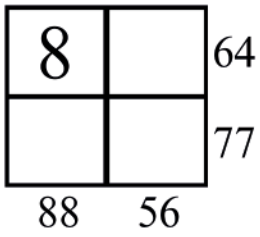
Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct.

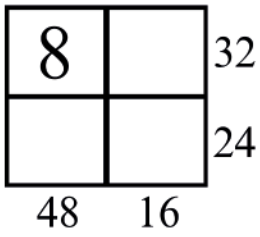












Color each rectangle according to the product of the numbers inside:

0-25 51-75 100+
26-50 76-100

8 x 4	4 x 7	5 x 6	5 x 8	7 x 5	8 x 9	7 x 9	5 x 10	4 x 11
3 x 12	7 x 5	11 x 3	6 x 6	6 x 9	7 x 8	8 x 8	7 x 7	6 x 8
8 x 6	6 x 7	12 x 3 / 12 x 7	9 x 9 / 7 x 7	5 x 12	12 x 6 / 12 x 8	9 x 9 / 12 x 3	6 x 5	5 x 7
7 x 6	12 x 3 / 12 x 8	8 x 10	9 x 9	8 x 12	10 x 10	9 x 9	11 x 8 / 7 x 4	7 x 5
6 x 5	7 x 12	9 x 10	10 x 10	9 x 9	10 x 10	9 x 9	12 x 7	9 x 4
4 x 12	9 x 11	9 x 11	9 x 9	9 x 10	9 x 9	9 x 11	8 x 12	4 x 8
4 x 7	9 x 9	10 x 8	7 x 12	11 x 9	8 x 10	10 x 9	8 x 11	6 x 6
8 x 4	8 x 12	12 x 8	9 x 11	10 x 8	9 x 10	9 x 11	9 x 9	8 x 4
5 x 8	9 x 11	11 x 9	9 x 10	12 x 7	8 x 11	10 x 9	10 x 12	10 x 11
10 x 4	9 x 9	8 x 12	7 x 12	9 x 9	12 x 12	11 x11	8 x 11	11 x 3
8 x 6	8 x 6 / 9 x 9	12 x 7	8 x 10	7 x 12	9 x10	10 x 8	12 x 8 / 12 x 3	8 x 5
11 x 4	6 x 8	6 x 8 / 7 x 12	12 x 8	8 x 10	8 x 12	10 x 10 / 11 x 4	6 x 8	7 x 6

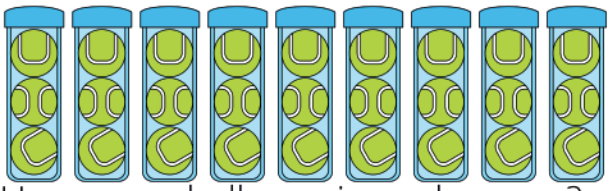
Date _____

Divide these stars into 4 groups.

How many stars are in each group?

What is $\frac{1}{4}$ of 24?

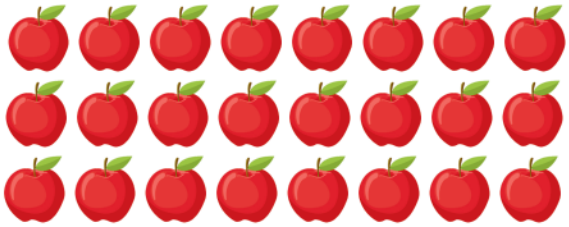
Divide these balls into 3 groups.



How many balls are in each group?

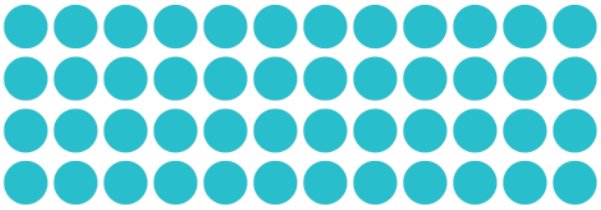
What is $\frac{1}{3}$ of 27?

Divide these apples into 2 groups.



What is $\frac{1}{2}$ of 24?

Divide these dots into 6 groups.



What is $\frac{1}{6}$ of 48?

Find the products.

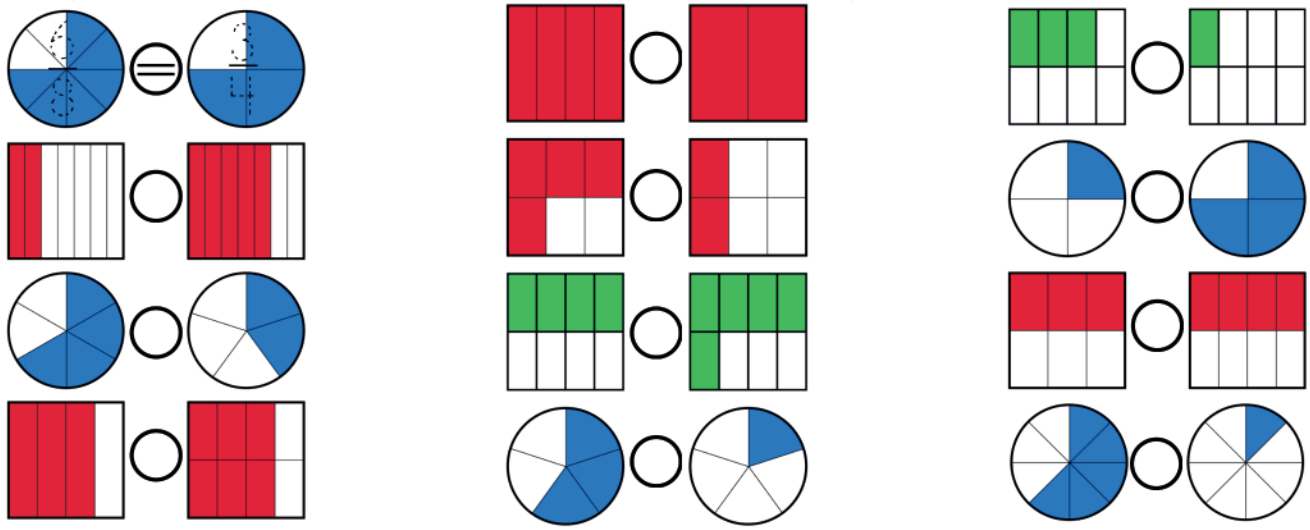
8 x 4 = ____
8 x 9 = ____
8 x 1 = ____
8 x 6 = ____
8 x 7 = ____
8 x 12 = ____
8 x 5 = ____
8 x 8 = ____
8 x 3 = ____
8 x 10 = ____
8 x 11 = ____
8 x 2 = ____

7 x 6 = ____
7 x 12 = ____
7 x 8 = ____
7 x 5 = ____
7 x 2 = ____
7 x 11 = ____
7 x 4 = ____
7 x 10 = ____
7 x 3 = ____
7 x 1 = ____
7 x 9 = ____
7 x 7 = ____

Find the quotients.

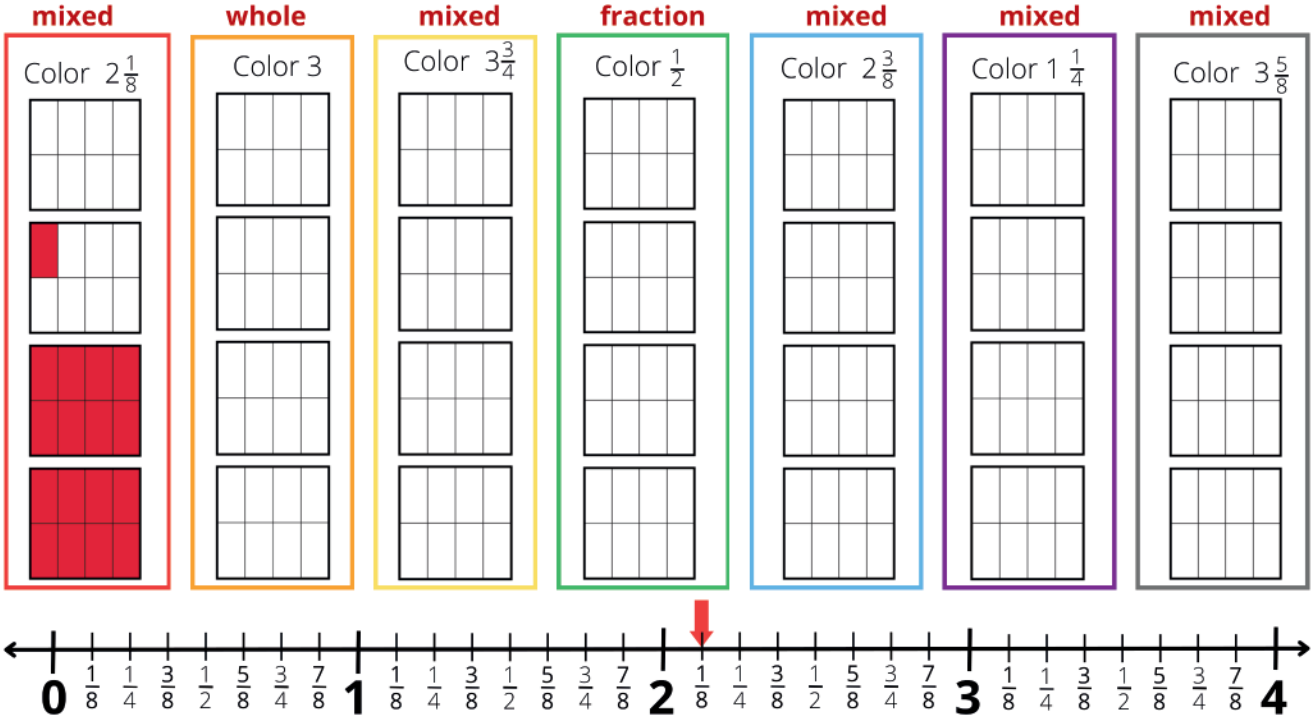
48÷8 = ___
63÷7 = ___
16÷8 = ___
64÷8 = ___
56÷8 = ___
32÷8 = ___
56÷7 = ___
49÷7 = ___
24÷8 = ___
96÷8 = ___
72÷8 = ___
40÷8 = ___

Place the correct comparison symbol (<, >, =) in the circle between each set of shapes. Then write the fraction on top of each shape.



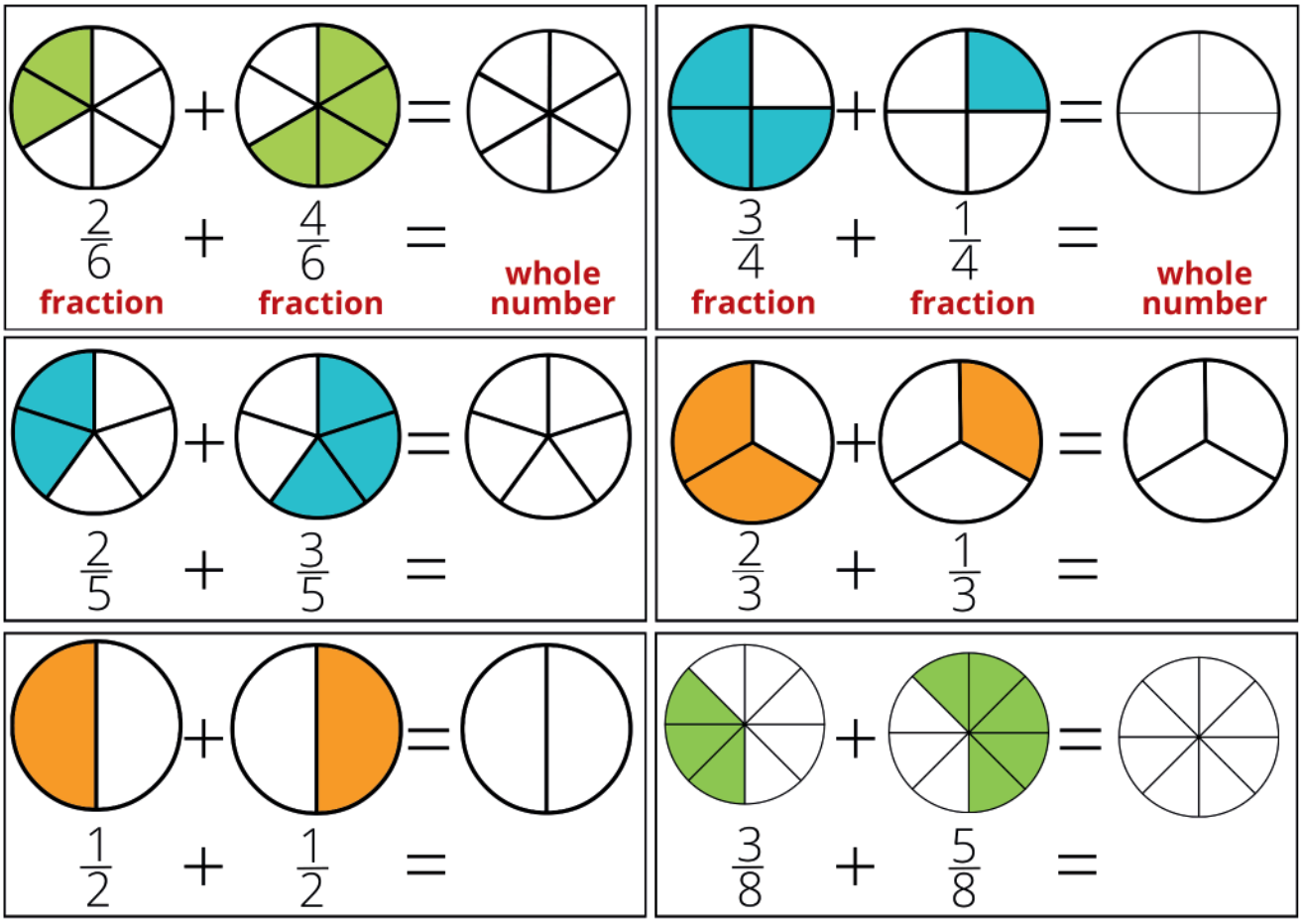
Color the coins needed to buy the robot.

Color the number in each colored rectangle. Then draw an arrow that color pointing to the number on the number line below.



Date _____

Add the fractions and color the sections of the empty circle to find the SUM.



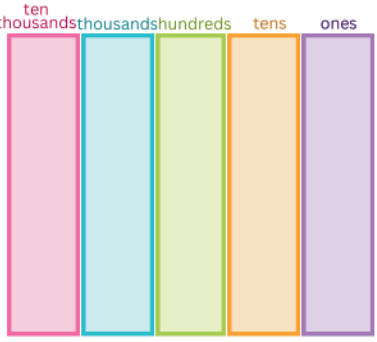
one less	one more	ten less	ten more	100 less	100 more
24, 25, 26		39, 49, 59		3, 103, 203	
____, 51, ____		____, 15, ____		____, 857, ____	
____, 33, ____		____, 28, ____		____, 276, ____	
____, 17, ____		____, 57, ____		____, 315, ____	

27 x 1 =

27 x 10 =

27 x 100 =

27 x 1000 =

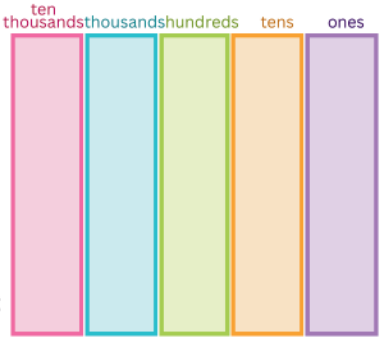


19 x 1 =

19 x 10 =

19 x 100 =

19 x 1000 =



Fill in the missing factors to complete each number sentence.

8 x ☐ = 40	3 x ☐ = 21	9 x ☐ = 72
☐ x 3 = 24	☐ x 9 = 45	☐ x 6 = 72
7 x ☐ = 49	8 x ☐ = 56	6 x ☐ = 48
4 x ☐ = 16	4 x ☐ = 20	5 x ☐ = 25
☐ x 4 = 36	☐ x 8 = 32	☐ x 6 = 30
3 x ☐ = 21	12 x ☐ = 96	6 x ☐ = 24
☐ x 3 = 15	☐ x 9 = 63	☐ x 3 = 36

Can you solve these multiplication puzzles?

2	x	4	=	
x		x		x
3	x		=	9
=		=		=
	x		=	

	x	5	=	
x		x		x
4	x	1	=	
=		=		=
	x		=	

1	x		=	
x		x		x
2	x	6	=	
=		=		=
	x	24	=	

Put these numbers in order from smallest to largest.

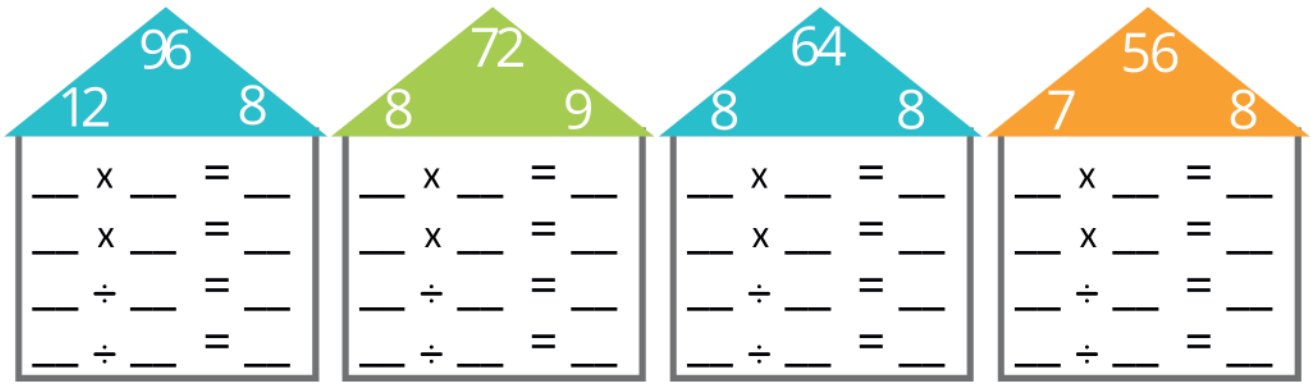
21	41	12	27	45

smallest ____ ____ ____ largest

315	351	311	113	305

smallest ____ ____ ____ largest

Complete these Fact Family houses.



Date _____

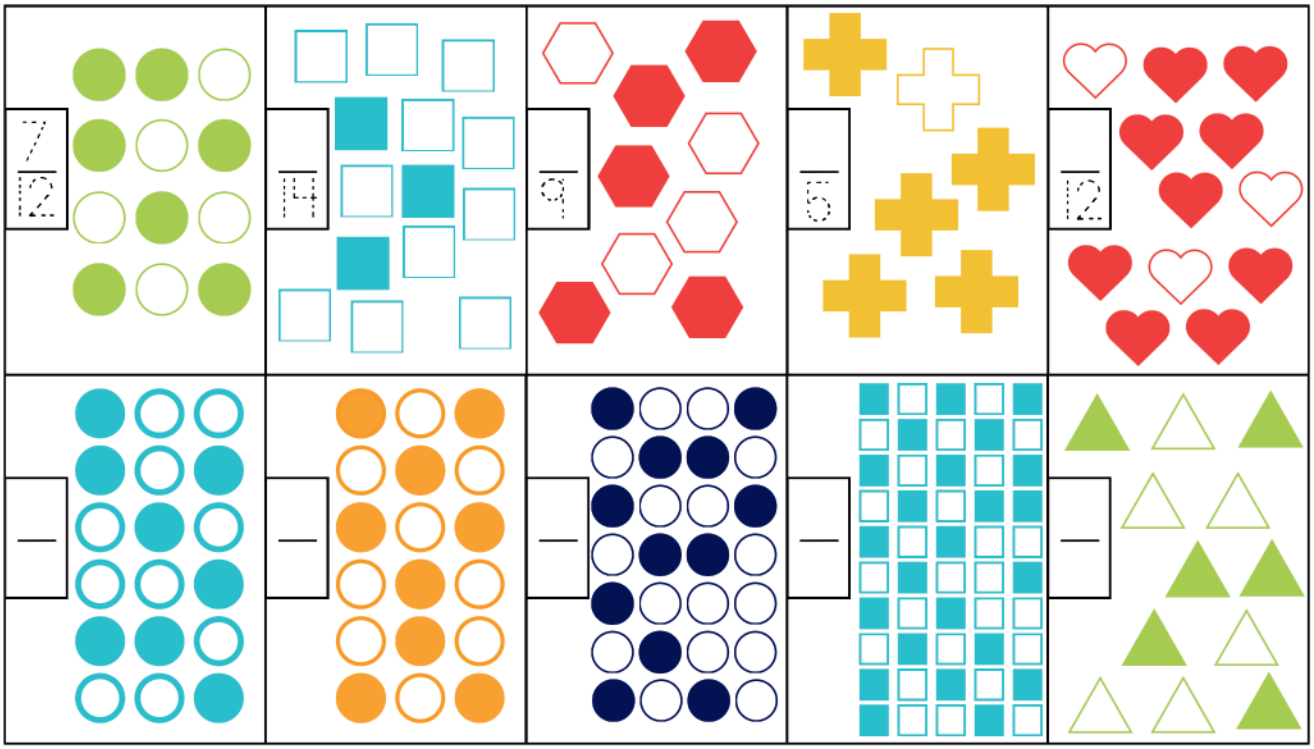
Trace then write each word.

whole number

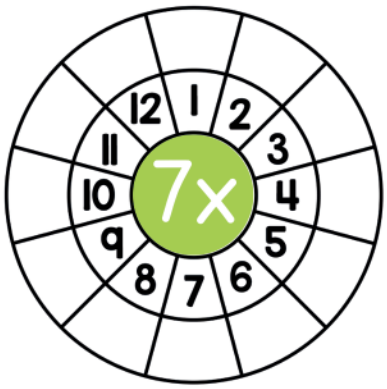
mixed number

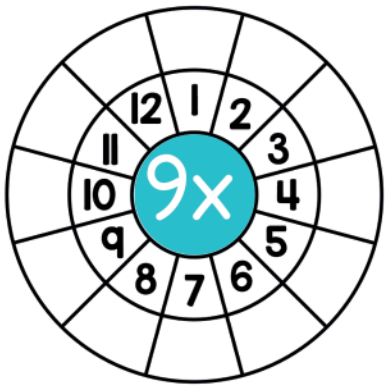
fraction

What fractional part is colored?



Multiply the number by each of the numbers in the center circle. Write the products in the outer circle.





Capacity Measurement:

How many cups fit in one quart? _____

How many pints fit in one quart? _____

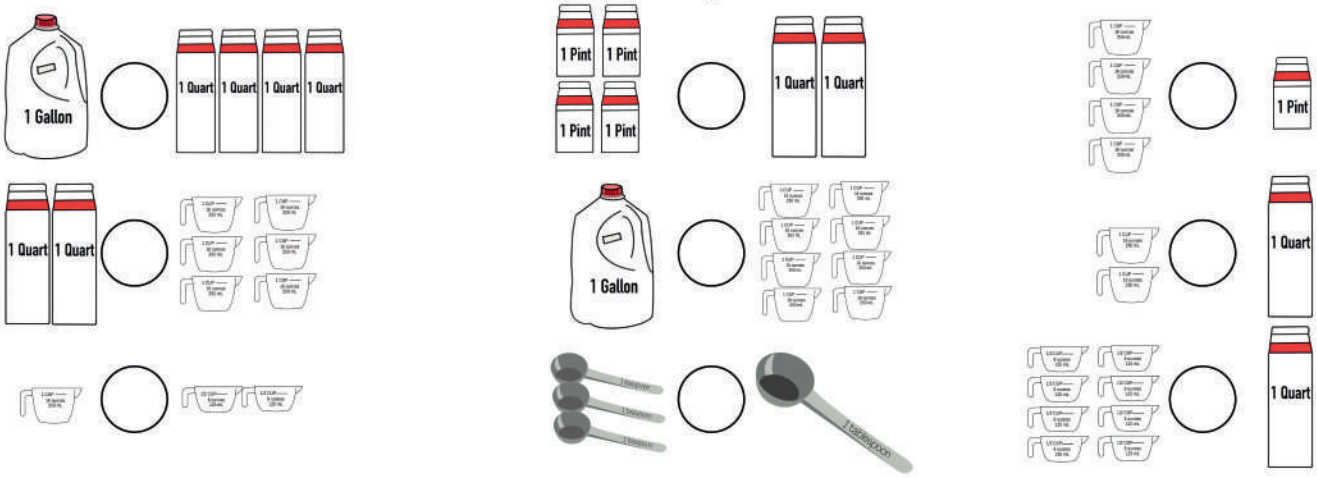
How many quarts fit in one gallon? _____

How many cups fit in one gallon? _____

How many pints fit in one gallon? _____

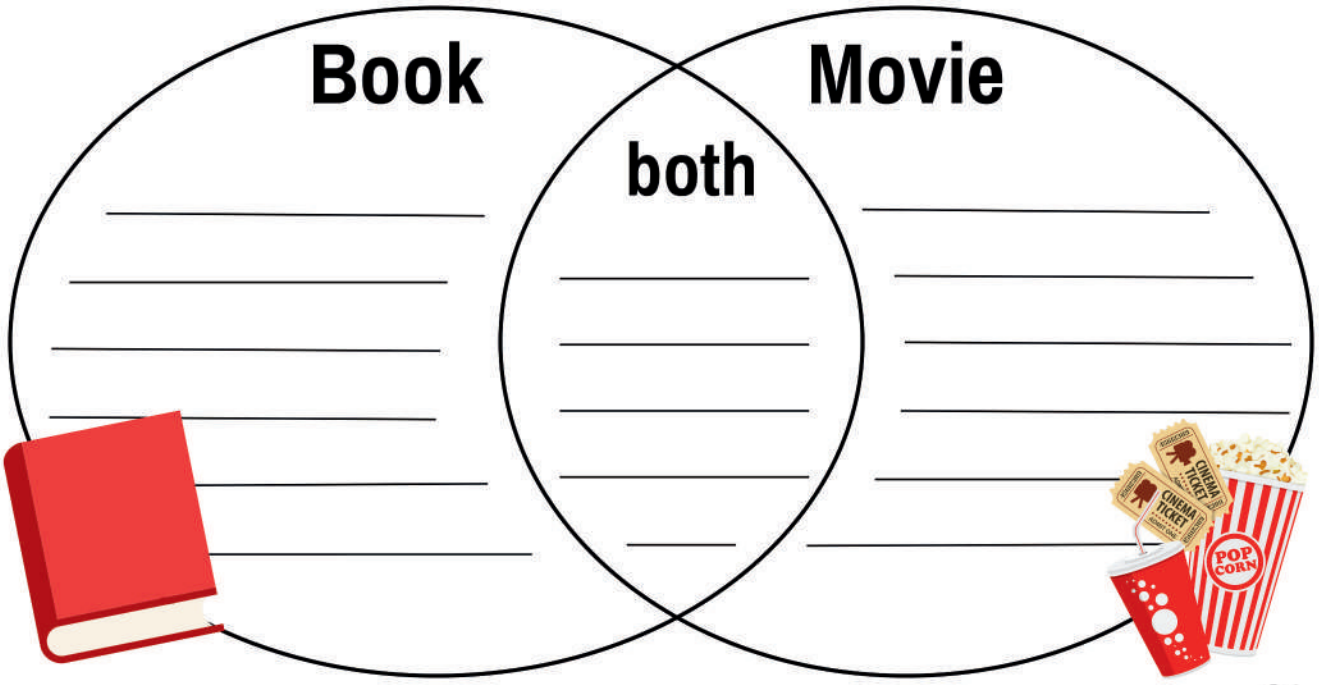
How many pints fit in two gallons? _____

Write the correct comparison symbol (<, >, =) between each set of capacity measurements. Remember the shark always wants to eat the LARGER amount.



Let's make a VENN DIAGRAM.

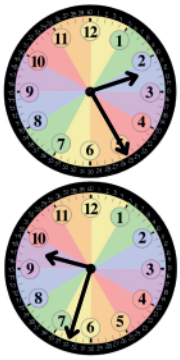
Think of your favorite book that has been made into a movie. Write down as many things as you can think of that the book and movie have in common, then write lists for just the book or movie that they don't share.



Date _____

30 minutes earlier	15 minutes earlier	current time	15 minutes later	30 minutes later
5:00	5:15	5:30	5:45	6:00
:	:	3:15	:	:
:	:	1:20	:	:
:	:	9:00	:	:

How much time has elapsed?



time	hours	minutes
2:25 PM		35
3:00	6	
9:00		33
9:33 PM		

_____ minutes

Are there more than 60 minutes?
If so, TRADE 60 minutes for 1 hour.

_7_ hours and _8_ minutes

time	hours	minutes
5:12 AM		
6:00		
8:00		
8:47 AM		

_____ minutes

Are there more than 60 minutes?
If so, TRADE 60 minutes for 1 hour.

_____ hours and _____ minutes

How long is your flight?

time	hours	minutes
8:20 AM		40
9:00 AM	1	
12:00 PM	4	
4:00 PM		45
4:45 PM		

_85_ minutes

Are there more than 60 minutes?
If so, TRADE 60 minutes for 1 hour.

_6_ hours and _25_ minutes

How long is your movie?

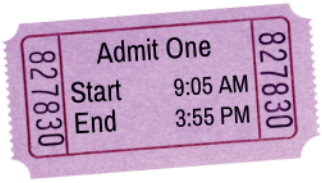
time	hours	minutes
10:10 AM		
1:15 PM		

_____ minutes

Are there more than 60 minutes?
If so, TRADE 60 minutes for 1 hour.

_____ hours and _____ minutes

How long is your day camp?



time	hours	minutes
9:05 AM		
3:55 PM		

_____ minutes

Are there more than 60 minutes?
If so, TRADE 60 minutes for 1 hour.

_____ hours and _____ minutes

Find products.

6 x 12 = ____
6 x 3 = ____
6 x 8 = ____
6 x 5 = ____
6 x 6 = ____
6 x 2 = ____
6 x 11 = ____
6 x 9 = ____
6 x 4 = ____
6 x 7 = ____

Find quotients.

36 ÷ 6 = ___
72 ÷ 6 = ___
66 ÷ 6 = ___
24 ÷ 6 = ___
42 ÷ 6 = ___
54 ÷ 6 = ___
18 ÷ 6 = ___
48 ÷ 6 = ___
30 ÷ 6 = ___
12 ÷ 6 = ___

Find products.

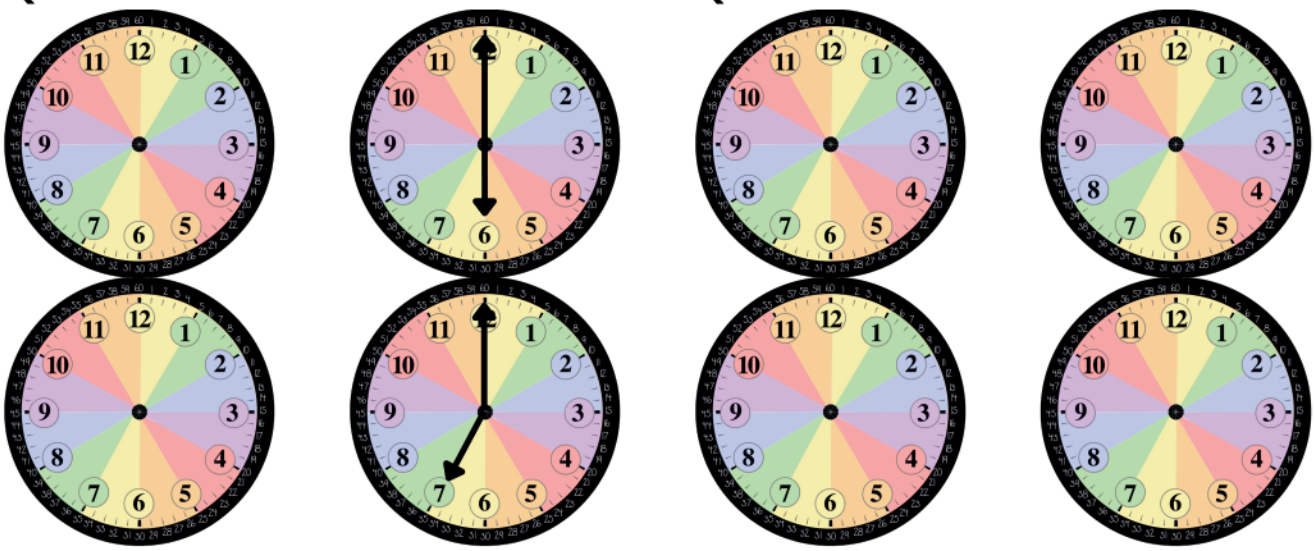
8 x 12 = ____
7 x 12 = ____
8 x 8 = ____
7 x 5 = ____
8 x 6 = ____
7 x 8 = ____
8 x 11 = ____
7 x 9 = ____
8 x 9 = ____
7 x 7 = ____

Find quotients.

64 ÷ 8 = ___
72 ÷ 8 = ___
63 ÷ 7 = ___
84 ÷ 7 = ___
56 ÷ 8 = ___
96 ÷ 8 = ___
56 ÷ 7 = ___
48 ÷ 8 = ___
49 ÷ 7 = ___
40 ÷ 8 = ___

Draw hands on each clock to show:

Quarter Before **Current Time** **Quarter After** **Half Past**



1 4 2 8
thousands hundreds tens ones

Round to the nearest TEN _____
Round to the nearest HUNDRED _____
Round to the nearest THOUSAND _____

2 5 6 0
thousands hundreds tens ones

Round to the nearest TEN _____
Round to the nearest HUNDRED _____
Round to the nearest THOUSAND _____

1 8 3 1
thousands hundreds tens ones

Round to the nearest TEN _____
Round to the nearest HUNDRED _____
Round to the nearest THOUSAND _____

2 1 1 4
thousands hundreds tens ones

Round to the nearest TEN _____
Round to the nearest HUNDRED _____
Round to the nearest THOUSAND _____

Date _____

Find the price of each meal. How much change will I get if I pay with $10.00?

FUN FOOD MENU

Hamburger	$3.20
Hot dog	$1.50
Pizza	$2.80
French Fries	$1.65
Salad	$1.25
Apple Slices	$1.88
Soda	$1.19
Ice cream	$2.79

Hamburger _____

French Fries _____

Soda + _____

total $_____

$10.00

\- _____

total

change $_____

Pizza _____

Soda + _____

total $_____

$10.00

\- _____

total

change $_____

Hot dog _____

Salad _____

Ice Cream + _____

total $_____

$10.00

\- _____

total

change $_____

Order these numbers from smallest to largest.

101	113	110	131	311	____ smallest	____	____	____	____ largest
189	118	198	181	108	____ smallest	____	____	____	____ largest
121	112	120	123	127	____ smallest	____	____	____	____ largest
401	104	114	410	411	____ smallest	____	____	____	____ largest
678	768	867	786	687	____ smallest	____	____	____	____ largest

one less	one more	ten less	ten more	100 less	100 more
415, 416, 417		406, 416, 426		316, 416, 516	
____, 101, ____		____, 101, ____		____, 101, ____	
____, 237, ____		____, 237, ____		____, 237, ____	
____, 312, ____		____, 312, ____		____, 312, ____	

How much money is this?

$\_\_\_$.$\_\_\_$ dollars cents

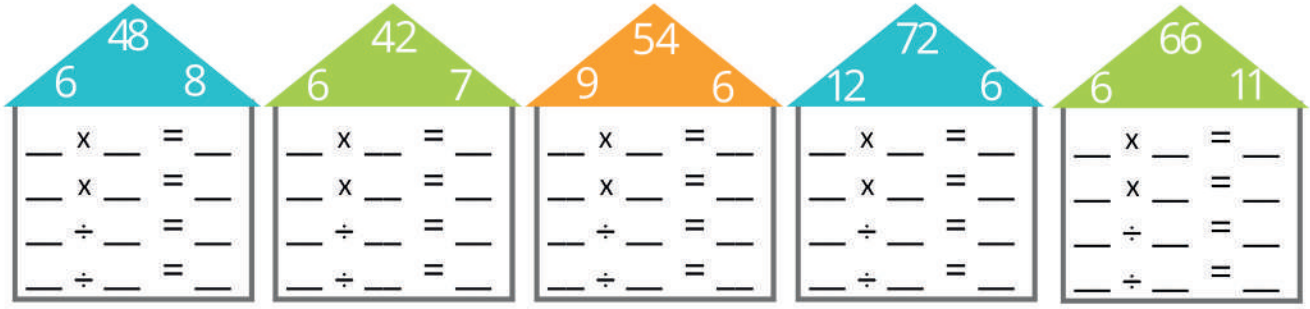
$\_\_\_$.$\_\_\_$ dollars cents

$\_\_\_$.$\_\_\_$ dollars cents

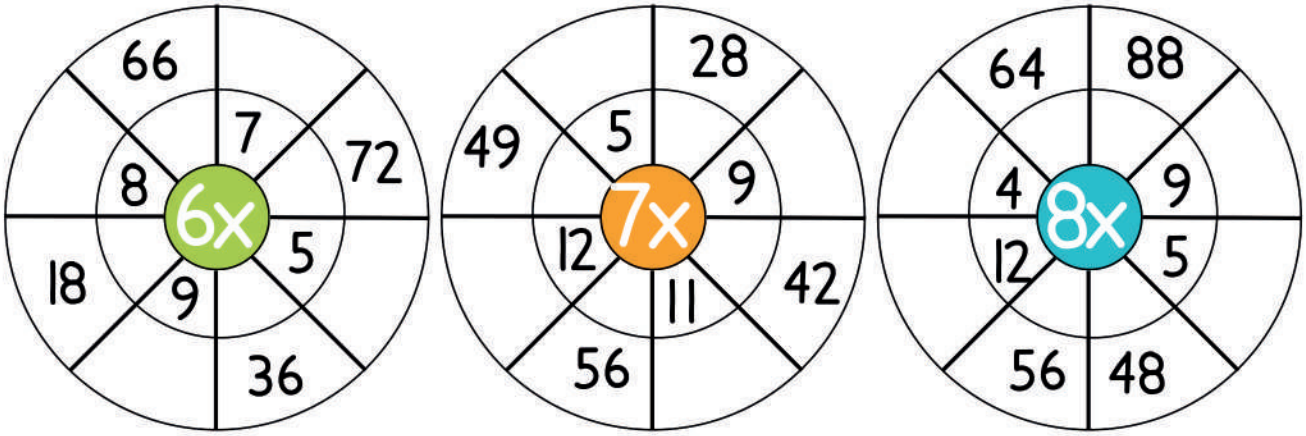
$\_\_\_$.$\_\_\_$ dollars cents

$\_\_\_$.$\_\_\_$ dollars cents

Complete these Fact Family houses.



Fill in the blanks of these multiplication circles so that the outer circle is the PRODUCT of the middle circle and the innermost circle.



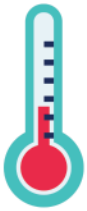
Date _____

Draw lines to match each picture in the top row with the correct tool in the bottom row. Each tool has two matches.









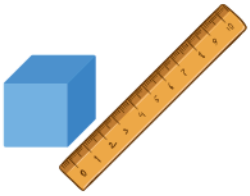

1 yard = 3 feet

1 foot = 12 inches

Convert these US Customary units of length.

1 yard = _____ feet	1 yard = _____ inches	36 inches = _____ feet
2 yards = _____ feet	12 inches = _____ foot	36 inches = _____ yard
9 feet = _____ yards	15 feet = _____ inches	12 feet = _____ yards
4 feet = _____ inches	15 feet = _____ yards	2 yards = _____ inches

Which unit of measurement should we use? Circle the correct unit.

 degrees pounds inches	 gallons centimeters	 inches centimeters miles	 pounds tons ounces
 inches feet yards miles	 quarts miles teaspoons	 pounds tons ounces	 degrees yards miles

Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct.

6		30
		42
42	30	

6		24
		24
36	16	

6		54
		24
18	72	

6		30
		63
42	45	

6		36
		45
30	54	

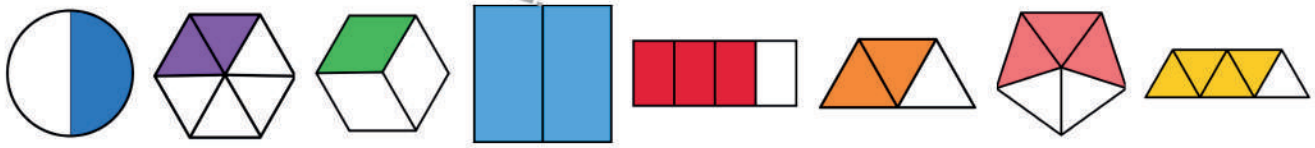
6		48
		77
66	56	

6		24
		42
36	28	

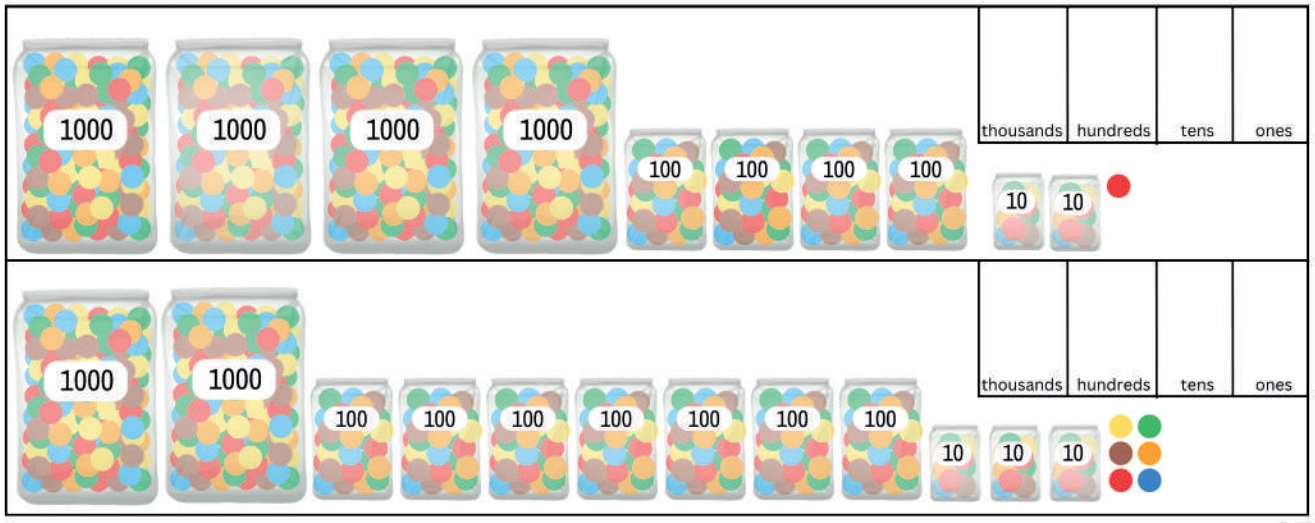
6		12
		72
48	18	

Draw lines to match the fractions.

$\frac{2}{2}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{3}{5}$ $\frac{2}{6}$ $\frac{2}{3}$ $\frac{4}{5}$

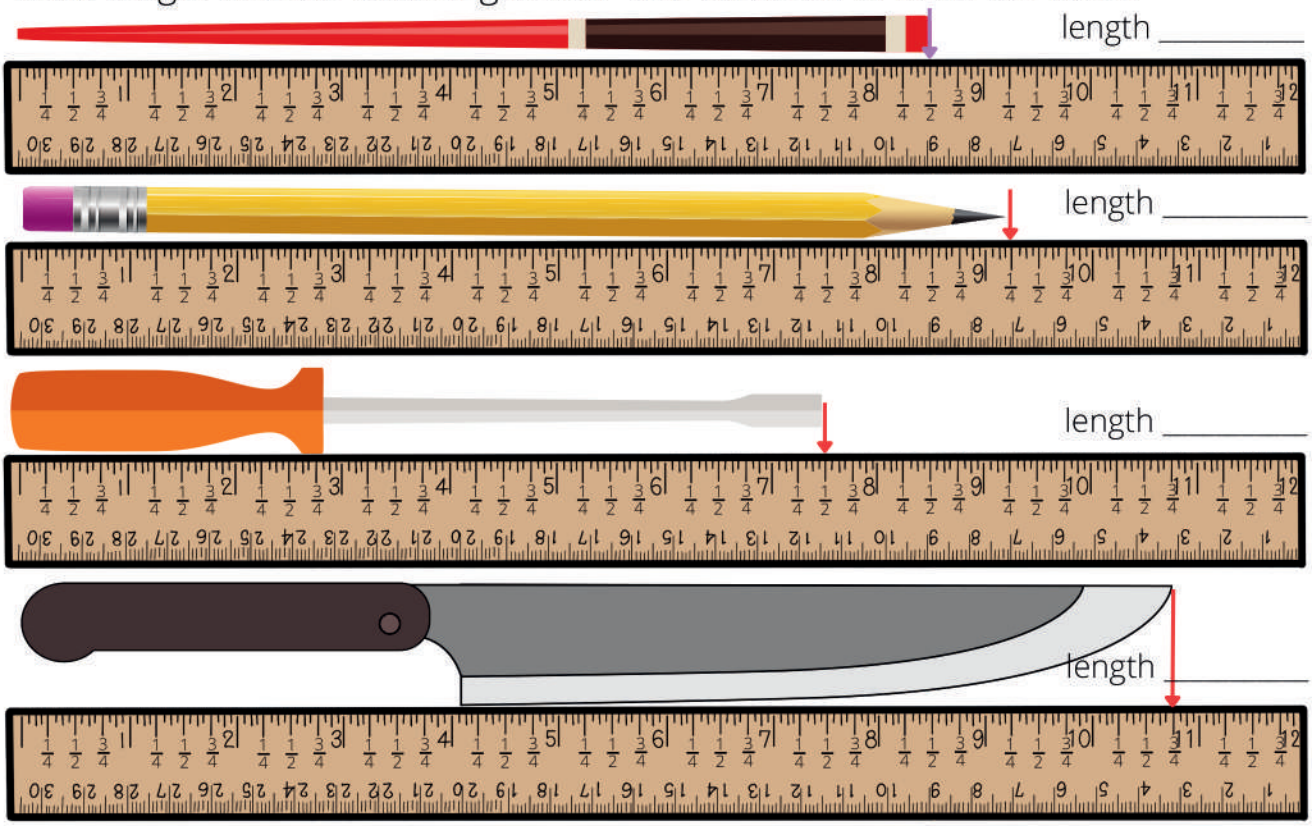


How many chocolate candies? Read each number aloud.

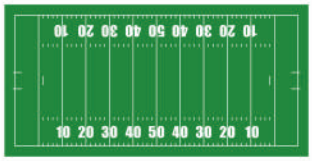


Date _____

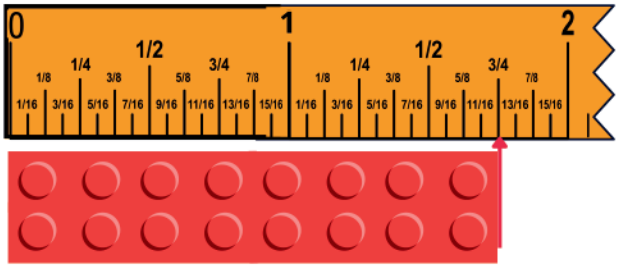
What length are the following items? Use inches and write the units.



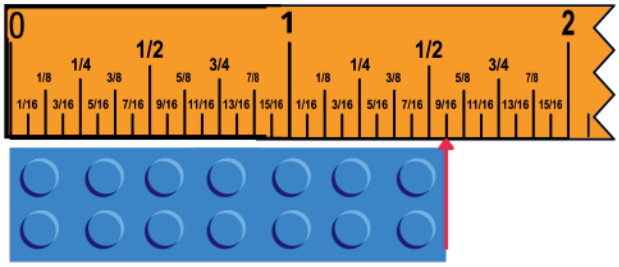
Which units of length should we use? Circle the correct unit.

 inches feet yards miles	 inches feet yards miles	 inches feet yards miles	 feet yards miles pounds
 inches feet yards miles	 inches cm yards miles	 inches feet yards miles	 inches feet yards miles
 centimeters kilometers	 meters kilometers	 meters kilometers	 centimeters kilometers

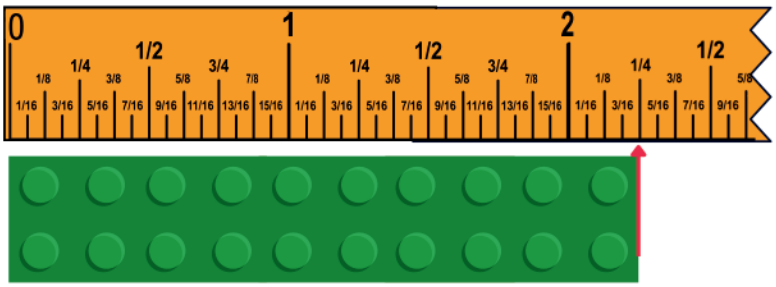
Use these broken pieces of rulers to find the length of each block.



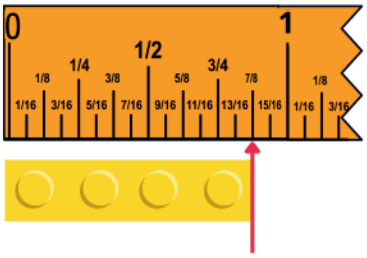
length _____ inches



length _____ inches



length _____ inches



length _____ inch

Use a ruler to measure these line segments in customary and metric units.

$3\frac{3}{4}$ in. 9cm 5mm

_____ _____

_____ _____

Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct.

4		20
		42
28	30	

4		12
		12
24	6	

4		36
		24
12	72	

4		32
		45
20	72	

4		24
		40
20	48	

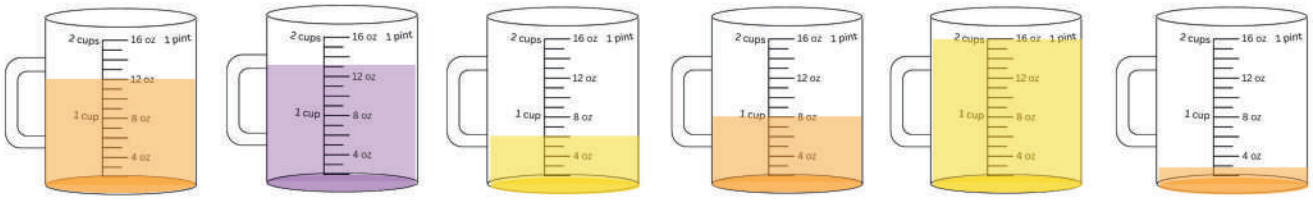
4		44
		56
32	77	

4		28
		24
16	42	

4		32
		18
36	16	

Date _____

How much juice is in each measuring container? (oz is the abbreviation for ounces)



_____ oz	_____ oz	_____ oz	_____ cup	_____ cups	_____ oz
_____ mL	_____ mL	_____ mL	_____ mL	_____ mL	_____ L

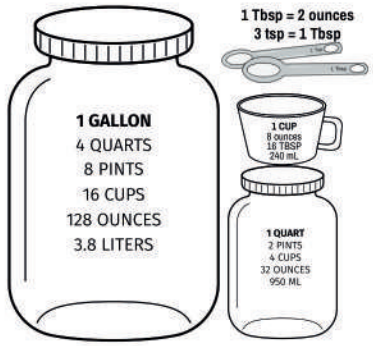
Graph the amounts of juice above in the columns below.

orange juice lemonade grape juice

Is this hard? Why?

You don't really have to graph the amounts. I just wanted you to think about WHY it is difficult to graph amounts in different units of measurement on the same graph.

Convert these US Customary Units.



1 gallon = _____ quarts

1 quart = _____ cups

1 gallon = _____ cups

2 gallons = _____ cups

20 cups = _____ quarts

1 cup = _____ ounces

3 cups = _____ ounces

1 quart = _____ ounces

128 ounces = _____ gallon

2 ounces = _____ Tablespoon

18 cups = _____ gallon _____ pint

6 cups = _____ quart _____ pint

2 gallons = _____ quarts

40 ounces = _____ quart _____ cup

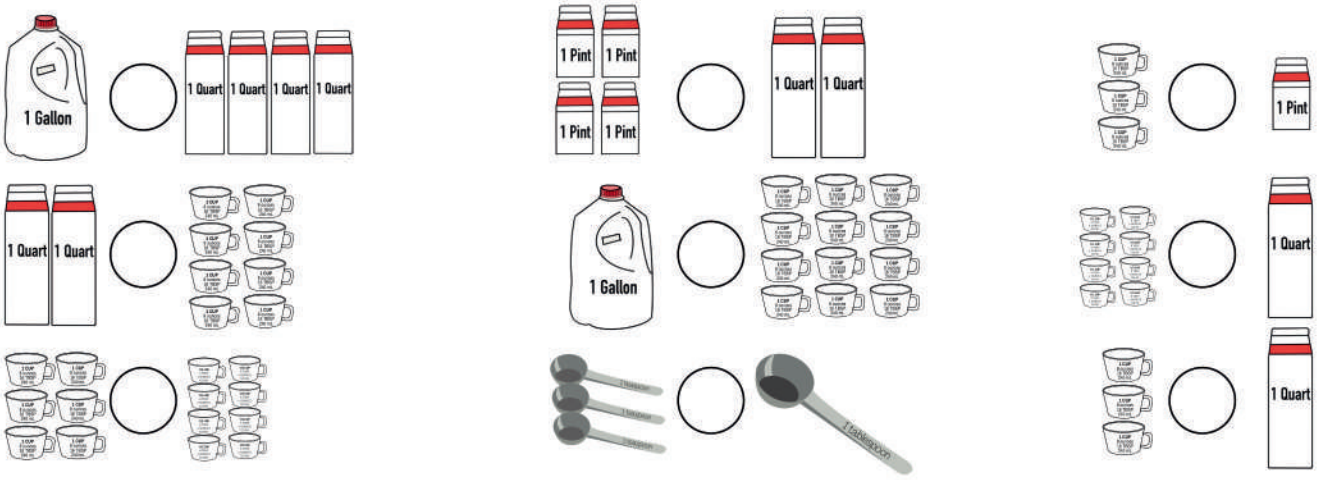
1 gallon 4 cups = _____ quarts

16 ounces = _____ cups

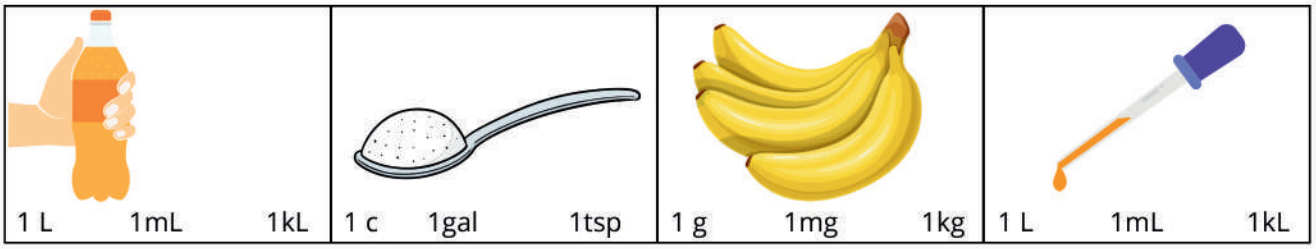
16 Tablespoons = _____ ounces

52 cups = _____ gallons _____ quart

Write the correct comparison symbol (<, >, =) between each set of capacity measurements. Remember the shark always wants to eat the LARGER amount.



Circle the best estimate of the capacity of each item.



Convert these **US Customary** length units.

14 feet = _____ yards _____ feet

15 inches = _____ foot _____ inches

29 feet = _____ yards _____ feet

5 feet = _____ yard _____ inches

1 mile = _____ feet

20 feet = _____ yards _____ feet

35 inches = _____ feet _____ inches

4 feet = _____ yard _____ inches

Convert these **metric** length units.

70 cm = _____ mm

90 mm = _____ cm

1000 cm = _____ m

1000 mm = _____ m

10 mm = _____ cm

40 mm = _____ cm

500 cm = _____ m

10 m = _____ cm

59 m = _____ cm

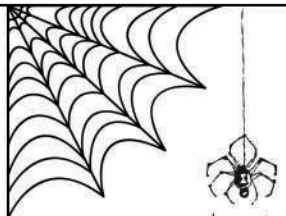
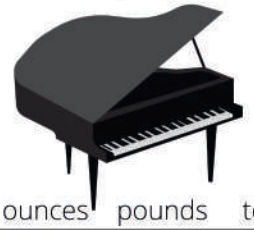
800 mm = _____ cm

61m = _____ cm

9000 mm = _____ cm

Date _____

Which units of weight should we use? Circle the correct unit.

 ounces pounds tons	 ounces pounds tons	 ounces pounds tons	 ounces pounds tons
 ounces pounds tons	 ounces pounds tons	 ounces pounds tons	 ounces pounds tons

Find the weight of each item.

____ lb ____ oz ____ lb ____ oz ____ lb ____ oz ____ lb ____ oz ____ lb ____ oz

____ kg ____ g ____ kg ____ g ____ kg ____ g ____ kg ____ g ____ kg ____ g

1 pound (lb) = 16 ounces (oz)
1 ton = 2000 lb

Convert **US Customary** weight units.

1 lb = _____ oz

2 lbs = _____ oz

1 ton = _____ lbs

35 oz = ____ lb _____ oz

50 oz = ____ lb _____ oz

1 kilogram (kg) = 1000 grams (g)
1 g = 1000 mg

Convert **metric** weight units.

1 kg= _____ g

20 kg = _____ g

3500 g = _____ kg ____ g

4000 mg = _____ g

5100 g = ____kg ____ g

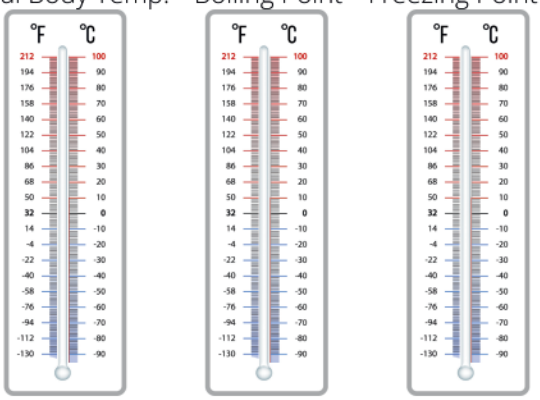
Measurement word problems. Draw a picture then write a number sentence to solve the problem.

A wood board is 4 feet long. We need to cut it into 6 equal pieces. How long will each piece be? 4 feet = _____ inches _____ (number of inches) ÷ _____ (number of pieces) = _____ (length of each piece)	You have one quart of orange juice. If you pour an equal amount into 4 glasses, how many ounces will each glass hold? 1 quart = _____ ounces _____ (number of ounces) ÷ _____ (number of glasses) = _____ (amount in each glass)
Your water bottle holds 9 liters. It's half full. how much water do you have? 9 L = _____ mL _____ (amount of water in mL) ÷ _____ (2) = _____ (amount in bottle)	You gathered eggs from your chickens. The biggest egg is 54 grams and the smallest egg is 37 grams. How much bigger is the biggest egg?
You got up at 8:10, which is 40 minutes later than usual. What time do you usually get up?	You started math at 9:15 am and it took you 45 minutes to complete. Then you read a book for 30 minutes and studied science for 20 minutes. What time did you finish?

Date _____

Use a red crayon to show the freezing point and the boiling point of water as well as normal body temperature. These were given in today's video. Write the temperatures in both scales on the lines below the thermometers.

Normal Body Temp. Boiling Point Freezing Point

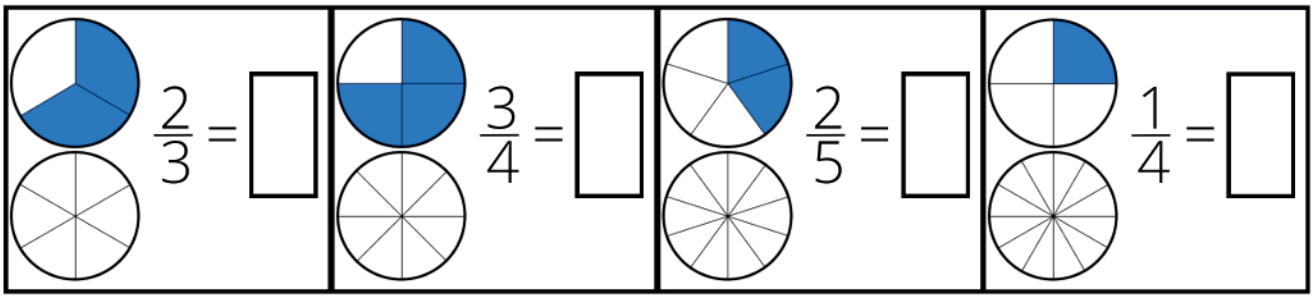


Normal body temperature: _____°C

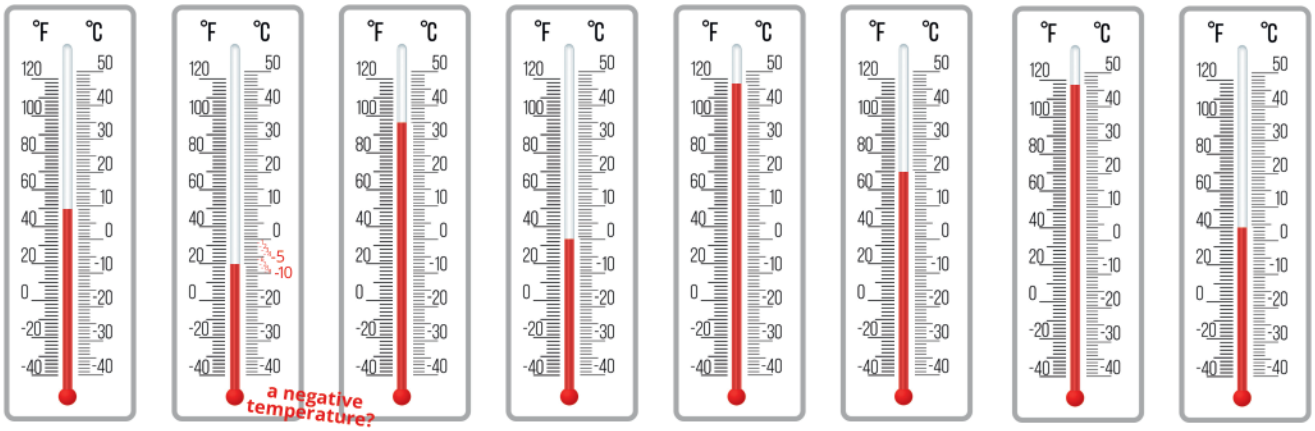
Freezing point of water: _____°C

Boiling point of water: _____°C

Color pieces of each bottom shape so it matches the top shape. Then write each equivalent fractions number sentence.



Write each temperature using both degrees fahrenheit and celsius. Circle any temperatures you recognize as important.

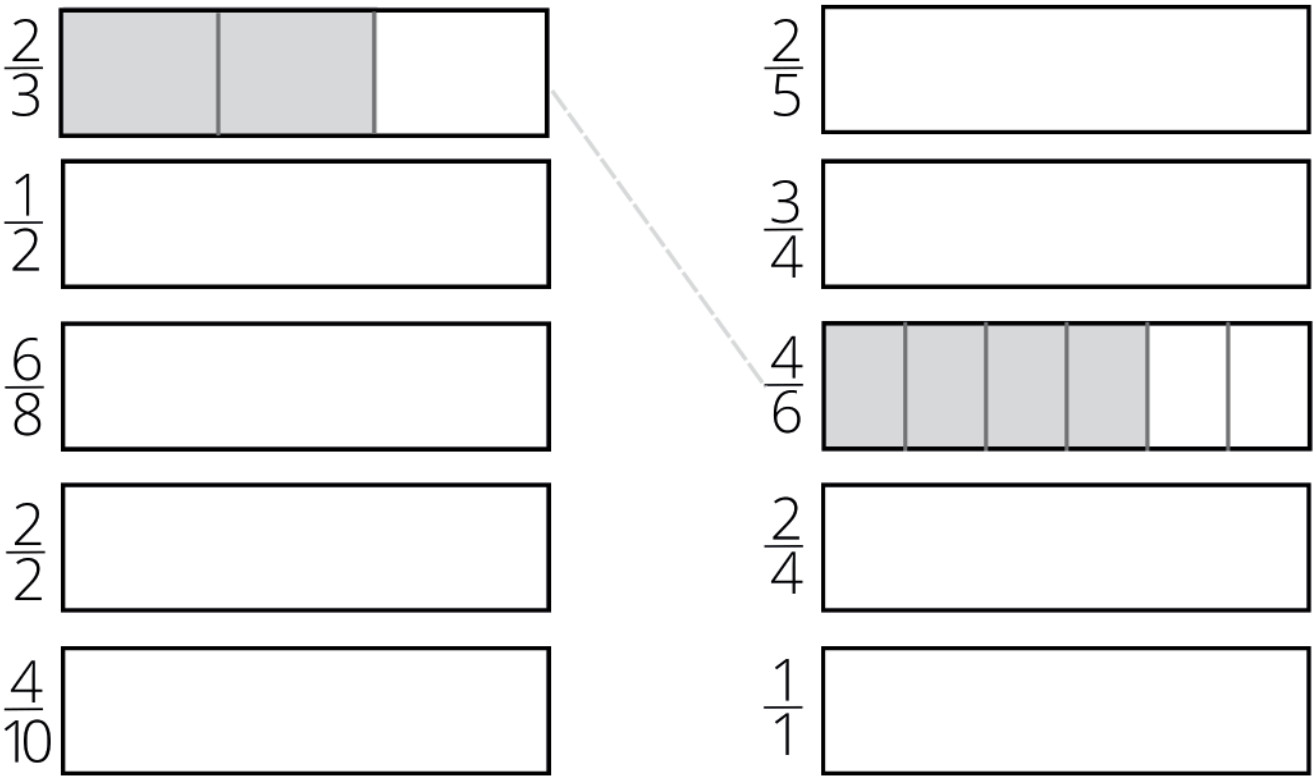


How is the temperature scale like a number line?

50 °F _____ 20 °F _____ _____ _____ _____ _____ _____ _____

9 °C _____ -7 °C _____ _____ _____ _____ _____ _____ _____

Draw lines to partition each bar into the number specified by the denominator and shade each bar to match the numerator of the fraction in front of it. Then draw lines to match the equivalent fractions in both of the columns. Your partitions don't have to be perfect!

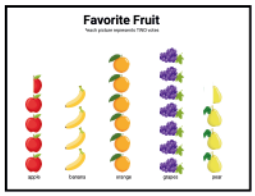
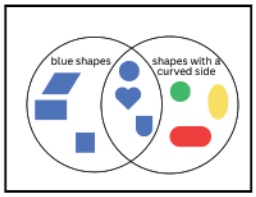
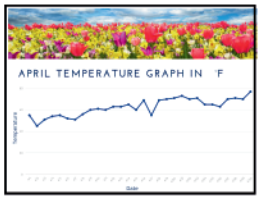
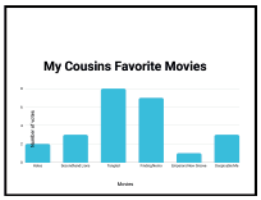
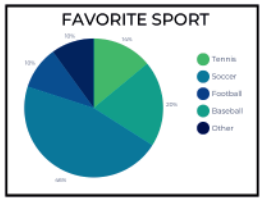


Find the products. What is the significance of the colored problems?

8 x 5 = ____	7 x 7 = ___	6 x 12 = ___	4 x 2 = ___
8 x 12 = ____	7 x 11 = ___	6 x 11 = ___	4 x 6 = ___
8 x 6 = ____	7 x 8 = ___	6 x 8 = ___	4 x 4 = ___
8 x 3 = ____	7 x 9 = ___	6 x 4 = ___	4 x 11 = ___
8 x 11 = ____	7 x 3 = ___	6 x 2 = ___	4 x 1 = ___
8 x 7 = ____	7 x 4 = ___	6 x 7 = ___	4 x 3 = ___
8 x 1 = ____	7 x 2 = ___	6 x 10 = ___	4 x 8 = ___
8 x 9 = ____	7 x 12 = ___	6 x 5 = ___	4 x 5 = ___
8 x 2 = ____	7 x 6 = ___	6 x 1 = ___	4 x 10 = ___
8 x 10 = ____	7 x 1 = ___	6 x 3 = ___	4 x 12 = ___
8 x 8 = ____	7 x 5 = ___	6 x 9 = ___	4 x 7 = ___
8 x 4 = ____	7 x 10 = ___	6 x 6 = ___	4 x 9 = ___

Date _____

Draw lines to match each data set to the best type of graph.

PICTOGRAPH	VENN DIAGRAM	LINE GRAPH	BAR GRAPH	PIE CHART
				
A type of bar graph, pictographs are pictorial representations of data using images, icons, or symbols.	Visual organizer of overlapping circles that explores the relationship between a set of different things.	Represents continuous data, using lines to connect individual data points.	Makes it easy to compare DISCRETE data between different groups, using bars.	Represents data as a circle. The slices of pie show the size of the data relative to each other.

Graph your growth over the year.

Graph the hair colors of everyone in your neighborhood.

Use pictures to represent your friend's favorite pets.

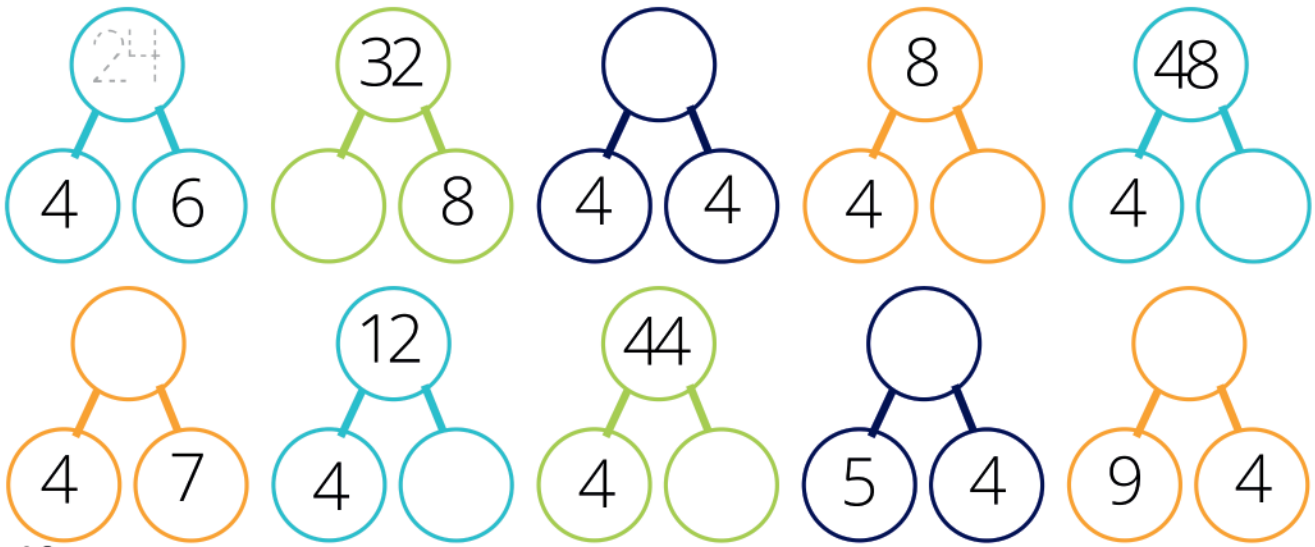
Your family is one whole group. Graph your family members favorite ice cream flavors as a percentage of the whole.

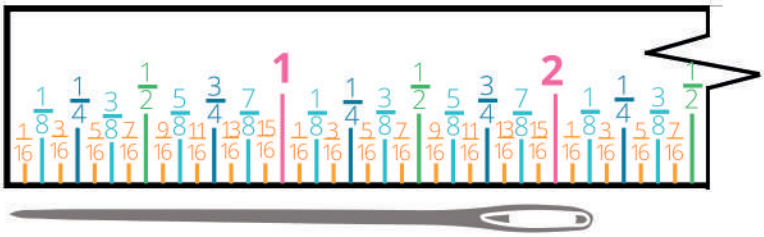
Compare the similarities and differences of dogs and cots.

Fill in the missing numbers.

98									107

Find the missing member of each FACT FAMILY.





How long is this sewing needle?

_____ in

Use a ruler to measure each item in Customary and Metric units.

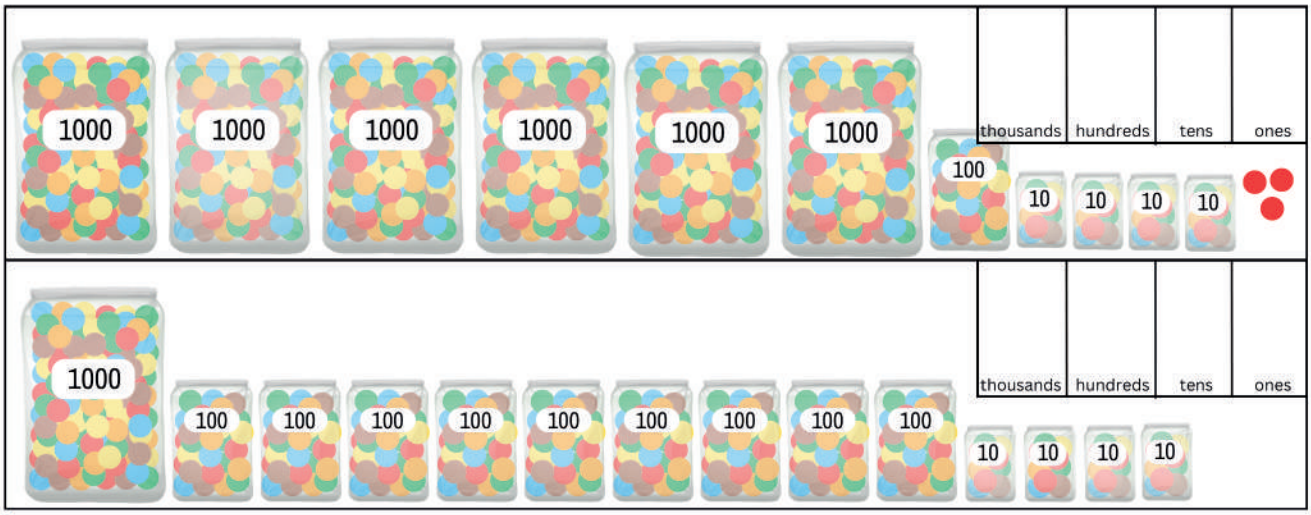
_____ cm _____ in

_____ cm _____ in

_____ cm _____ in

_____ cm _____ in

How many chocolate candies? Read each number aloud.



Convert these length units.

16 ft = _____ yd _____ ft

14 in = _____ ft _____ in

25 ft = _____ yd _____ ft

1 mi = _____ ft

12 km = _____ m

3000 mm = _____ m

2 m = _____ cm

37 m = _____ cm

3 cm = _____ mm

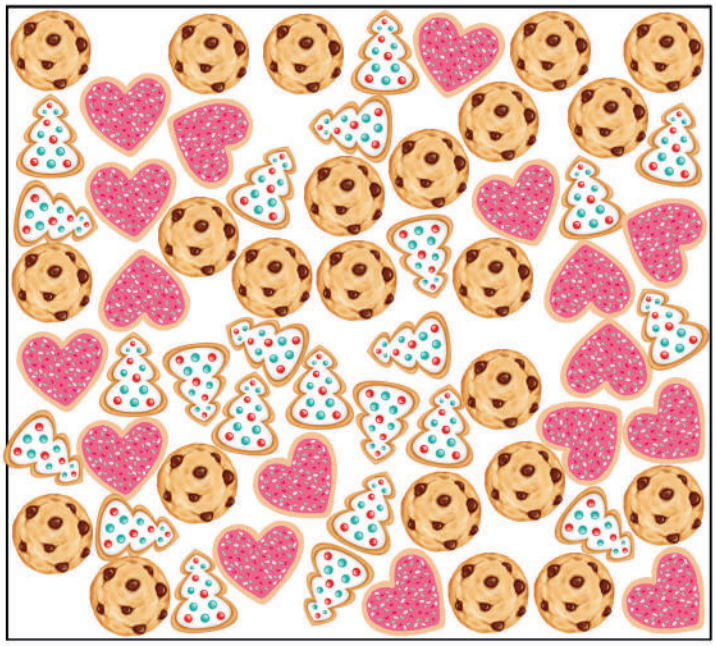
900 mm = _____ cm

6 m = _____ mm

100 mm = _____ cm

Date _____

Build a FREQUENCY TABLE and then a PICTOGRAPH.



KEY

Each circle represents two cookies.

chocolate chip	tree	heart

Find products.

4 x 3 = ___
4 x 7 = ___
4 x 4 = ___
4 x 11 = ___
4 x 2 = ___
4 x 12 = ___
4 x 8 = ___
4 x 5 = ___
4 x 10 = ___
4 x 1 = ___
4 x 6 = ___
4 x 9 = ___

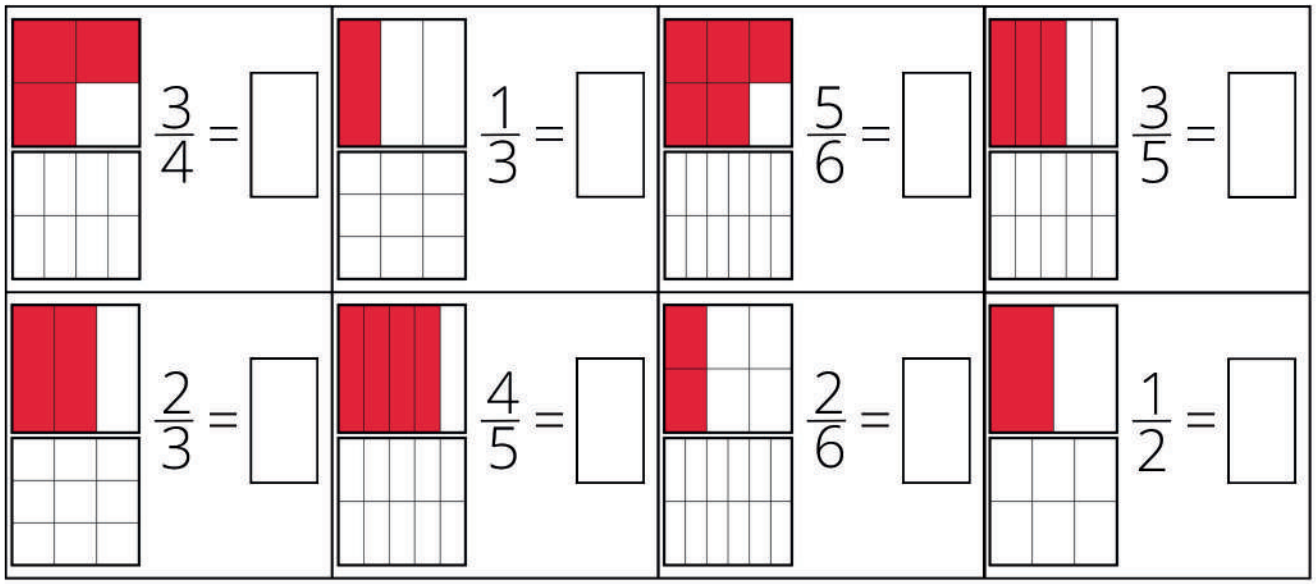
6 x 2 = ___
6 x 1 = ___
6 x 8 = ___
6 x 4 = ___
6 x 12 = ___
6 x 7 = ___
6 x 10 = ___
6 x 9 = ___
6 x 11 = ___
6 x 3 = ___
6 x 5 = ___
6 x 6 = ___

Find quotients.

36 ÷ 4 = ___
24 ÷ 4 = ___
16 ÷ 4 = ___
44 ÷ 4 = ___
20 ÷ 4 = ___
32 ÷ 4 = ___
12 ÷ 4 = ___
48 ÷ 4 = ___
28 ÷ 4 = ___
8 ÷ 4 = ___
40 ÷ 4 = ___

one less	one more	ten less	ten more	100 less	100 more
10, 11, 12		3, 13, 23		619, 719, 819	
____, 19, ____		____, 55, ____		____, 101, ____	
____, 72, ____		____, 29, ____		____, 244, ____	

Color pieces of each bottom shape so it matches the top shape. Then write each equivalent fractions number sentence.



Draw the correct comparison symbol (<, >, =) between each set of fractions below. Use your FRACTION BARS or FRACTION CIRCLES to help.

$\frac{2}{2} \; ? \; \frac{3}{4}$ $\quad \frac{2}{8} \; ? \; \frac{2}{9}$ $\quad \frac{1}{3} \; ? \; \frac{3}{9}$

$\frac{2}{3} \; ? \; \frac{4}{6}$ $\quad \frac{5}{6} \; ? \; \frac{5}{8}$ $\quad \frac{1}{1} \; ? \; \frac{7}{7}$

Convert these capacity units.

1 c = _____ oz

1 qt = _____ c

1 qt = _____ oz

16 c = _____ gal

2 oz = _____ Tbsp

1 Tbsp = _____ tsp

1 gal = _____ pt

1 gal = _____ qt

9 tsp = _____ Tbsp

1 c = _____ Tbsp

9 qt = _____ gal _____ pt

16 oz = _____ c

10 pt = _____ gal _____ c

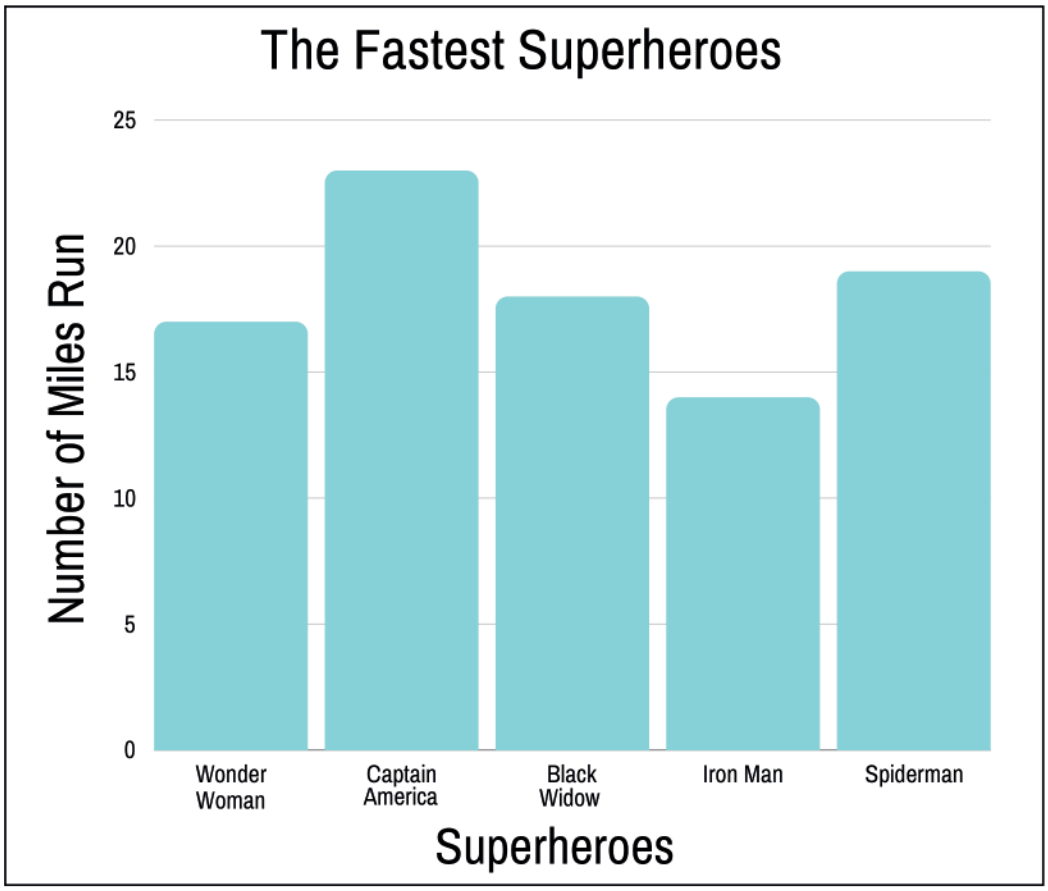
16 Tbsp = _____ oz

20 Tbsp = _____ c _____ oz

Date _____

The superheroes had a race. The graph below shows how many miles each superhero ran in one hour.

How many miles did each superhero run?



Wonder Woman 7mi.

Captain America

Back Widow

Iron Man

Spiderman

Which superhero ran the most miles? _____

Who ran the least? _____

How many MORE miles did Spiderman run than Iron Man? _____

How many miles did all of the superheroes run together? _____

How many MORE miles did Captain America run than Spiderman? _____

Find the sums.

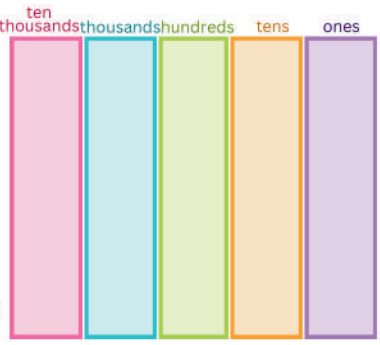
1 + 2 = _____	4 + 5 = _____	8 + 7 = _____
10 + 20 = _____	40 + 50 = _____	80 + 70 = _____
100 + 200 = _____	400 + 500 = _____	800 + 700 = _____

15 x 1 =

15 x 10 =

15 x 100 =

15 x 1000 =

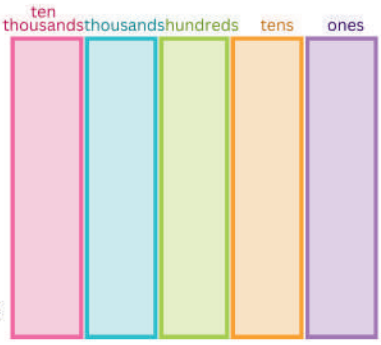


99 x 1 =

99 x 10 =

99 x 100 =

99 x 1000 =



Color the coins needed to buy the football.

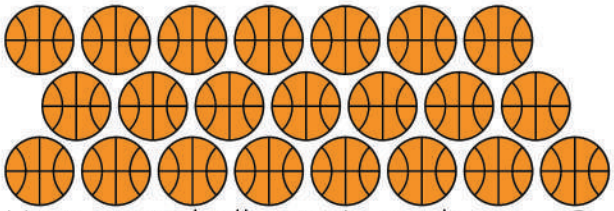
Color the coins needed to buy the cap.

Divide these hearts into 4 groups.

How many stars are in each group?

What is $\frac{1}{4}$ of 20?

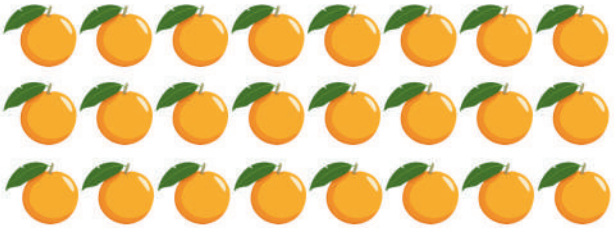
Divide these balls into 2 groups.



How many balls are in each group?

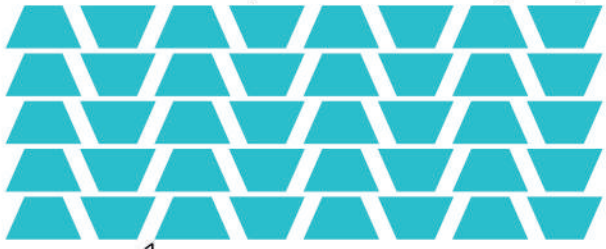
What is $\frac{1}{2}$ of 22?

Divide these oranges into 3 groups.



What is $\frac{1}{3}$ of 24?

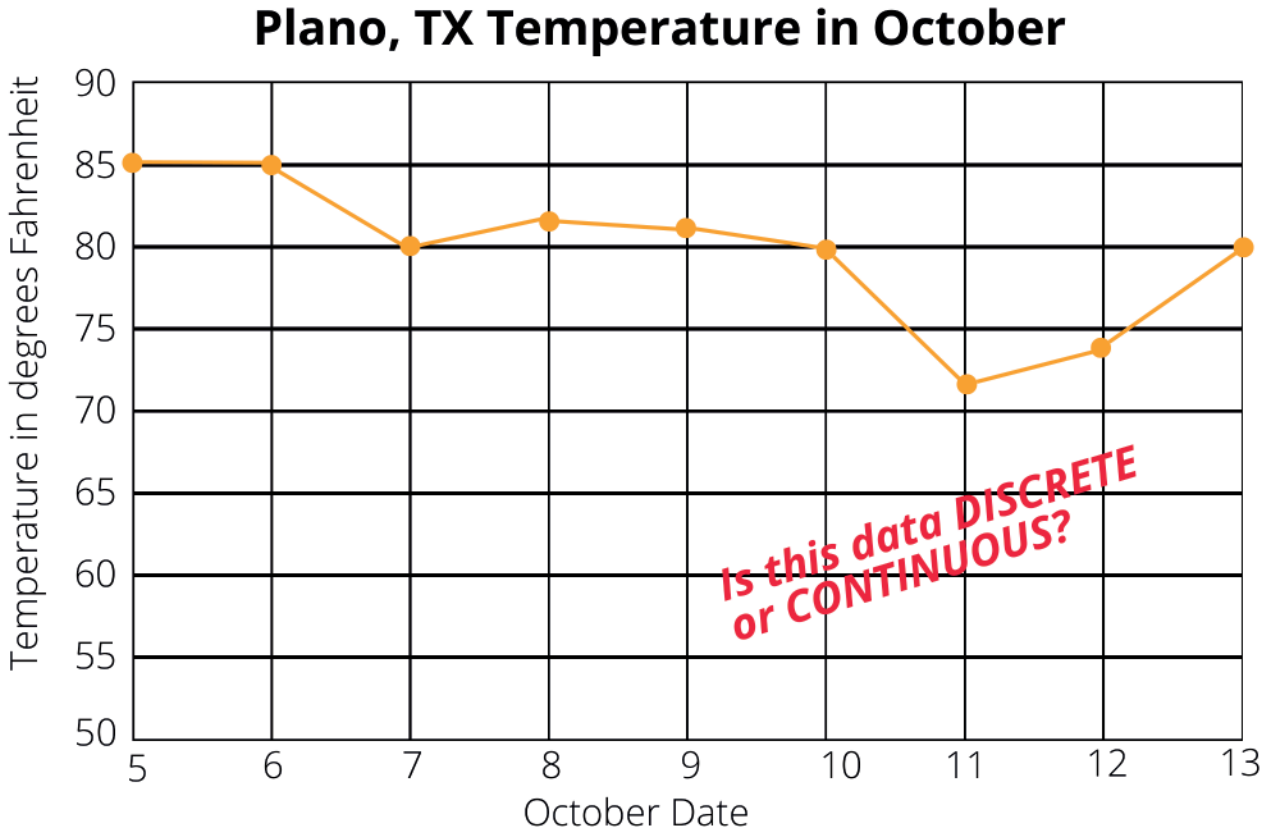
Divide these trapezoids into 5 groups.



What is $\frac{1}{5}$ of 40?

Date _____

Lizzy took the temperature at 10:00 am every day last week in Plano, TX.



What is our temperature scale? _____

Why do our temps start at 50 degrees and end at 90 degrees?

_____

What was the temperature October 9? How did you estimate? _____

Which date was the coldest? _____Warmest? _____

Which date had the largest temperature drop?_____

Why did I use a LINE GRAPH to portray temperature? _____

Why does the graph specify the time of the temperature taken?_____

_____

Does temperature change throughout the day? _____

Is it colder at noon or midnight? _____

Find the sums with regrouping.

hundreds	tens	ones
1	4	9
+	1	2	8

hundreds	tens	ones
2	6	5
+	1	8	7

hundreds	tens	ones
5	2	7
+	2	9	3

hundreds	tens	ones
1	7	7
+	3	4	1

hundreds	tens	ones
2	0	9
+	1	3	9

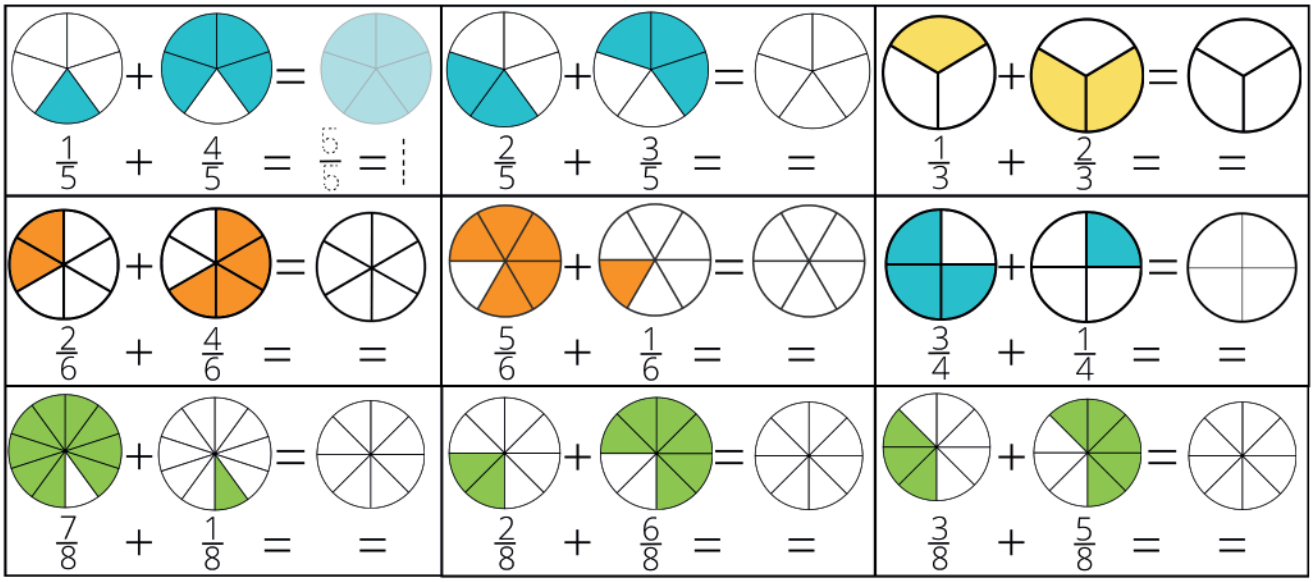
Put these numbers in order from smallest to largest.

15	81	18	115	51
smallest	____	____	____	largest
917	719	179	971	791
smallest	____	____	____	largest

Fill in the missing parts of each number sentence.

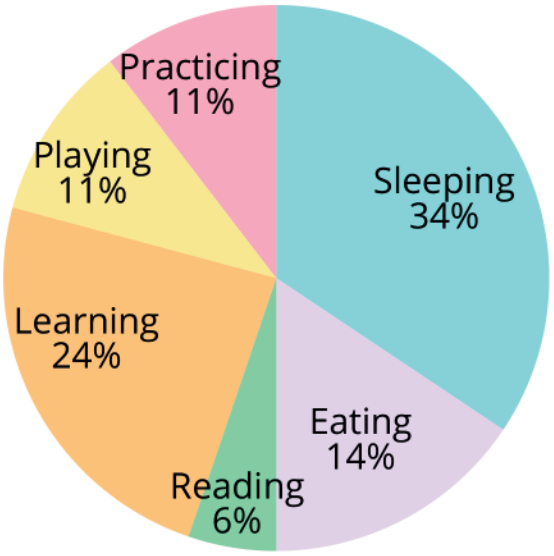
7 x 8 = ☐	4 x ☐ = 28	11 x 12 = ☐
☐ x 3 = 12	12 x 9 = ☐	☐ x 6 = 72
7 x 7 = ☐	8 x ☐ = 72	6 x 9 = ☐
4 x ☐ = 32	4 x 12 = ☐	5 x ☐ = 25
9 x 4 = ☐	☐ x 8 = 40	8 x 6 = ☐
3 x ☐ = 27	12 x 8 = ☐	6 x ☐ = 24
7 x 3 = ☐	☐ x 9 = 63	4 x 5 = ☐

Add the fractions and color the sections of the empty circle to find the SUM.



Date _____

Each WHOLE day is 24 hours. This is how Lizzy spent her day today.



How did she spend most of her time?

_____

How did she spend least of her time?

_____

On which two activities did she spend an equal amount of time?

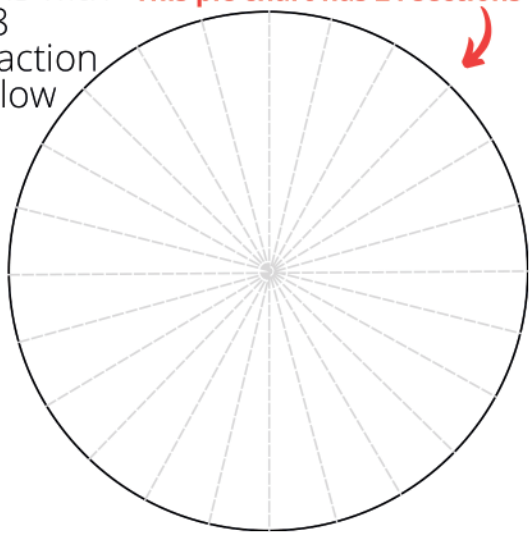
_____

Why do all of the activities add up to 100%?

_____

What does YOUR daily schedule look like? Color the pie chart below. It has 24 sections, 1 section per hour. Label your sections with fractions, not percentages. So if you sleep for 8 hours, 8 sections would be sleeping and the fraction would be 8/24. Then write some questions below for your mom or dad to answer.

This pie chart has 24 sections



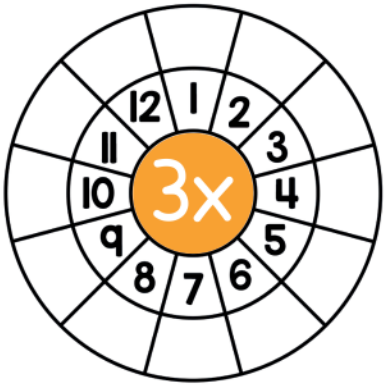
_____

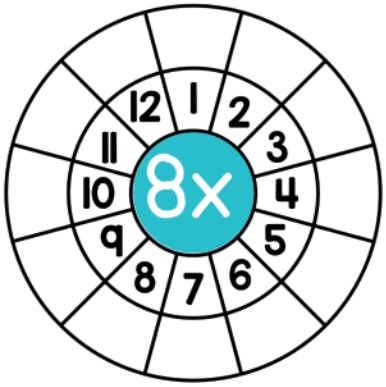
_____

_____

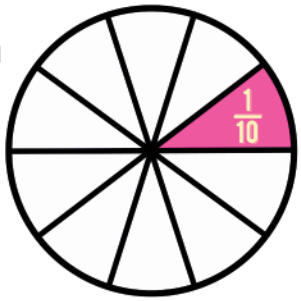
_____

Multiply the number by each of the numbers in the center circle. Write the products in the outer circle.





One tenth means one whole divided into ten parts. We can write "divided by" as 1÷10 or as $\frac{1}{10}$ or as 1/10. They all mean the same thing.



Per also means "divided by". Cent means one hundred. Per cent means "divided by one hundred".

percent

$15\% = \frac{15}{100}$ ← per ← cent

$19\% = \frac{\quad}{100}$

$27\% = \frac{\quad}{100}$

$68\% = \frac{\quad}{100}$

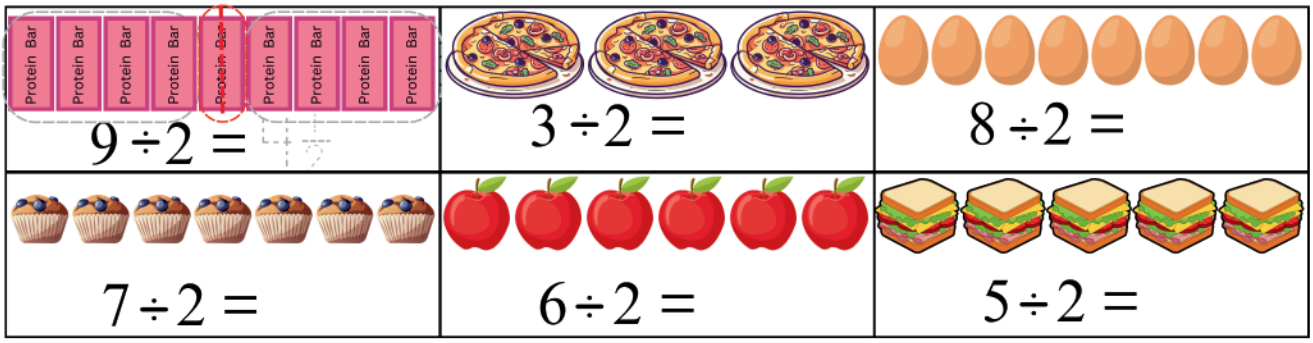
$56\% = \frac{\quad}{100}$

$33\% = \frac{\quad}{100}$

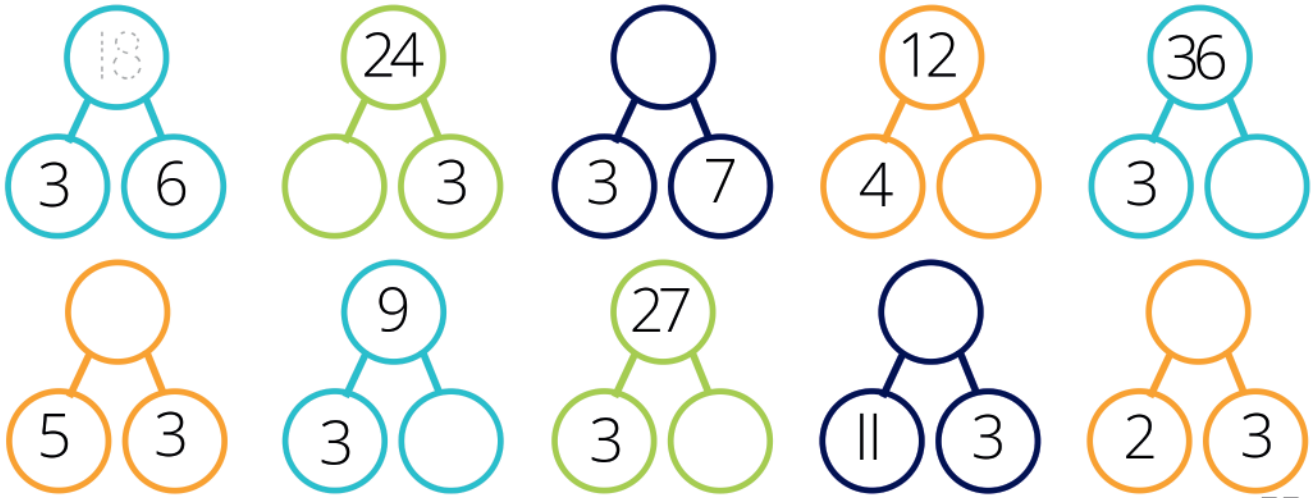
$41\% = \frac{\quad}{100}$

$72\% = \frac{\quad}{100}$

Draw lines to divide each set into equal halves. If there is a leftover, circle it in red, then use a vertical line to cut it in half. Split those halves between each group. How many are in each group?

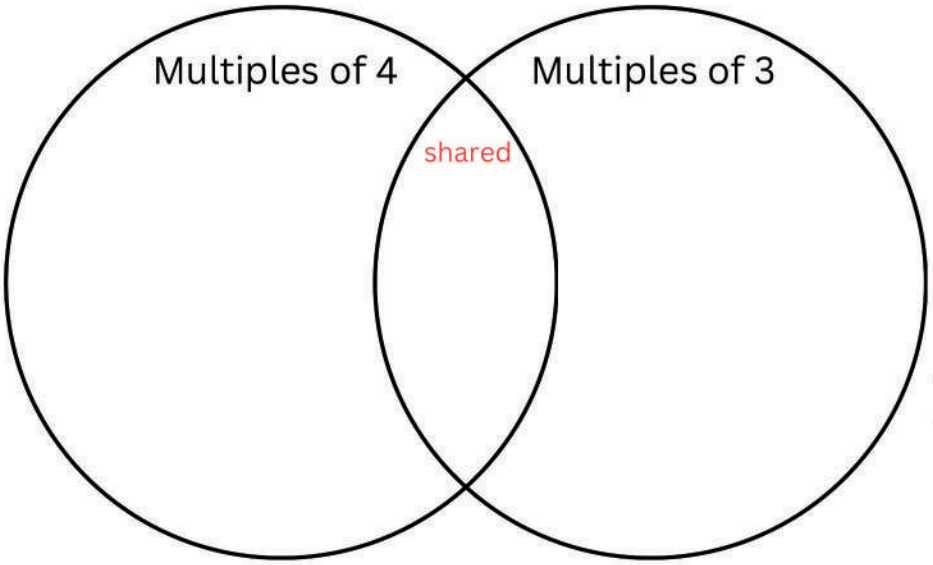


Find the missing member of each FACT FAMILY.



Date _____

Add the multiples of 3 and 4 to the correct circles. Cross out each number as you use it. Which numbers do both groups share?



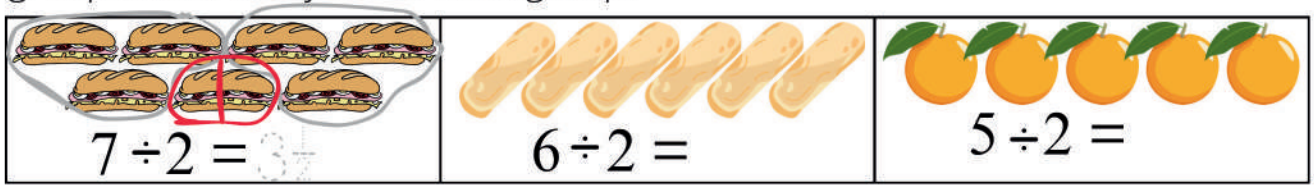
Multiples of 3

3	6	9	12
15	18	21	24
27	30	33	36

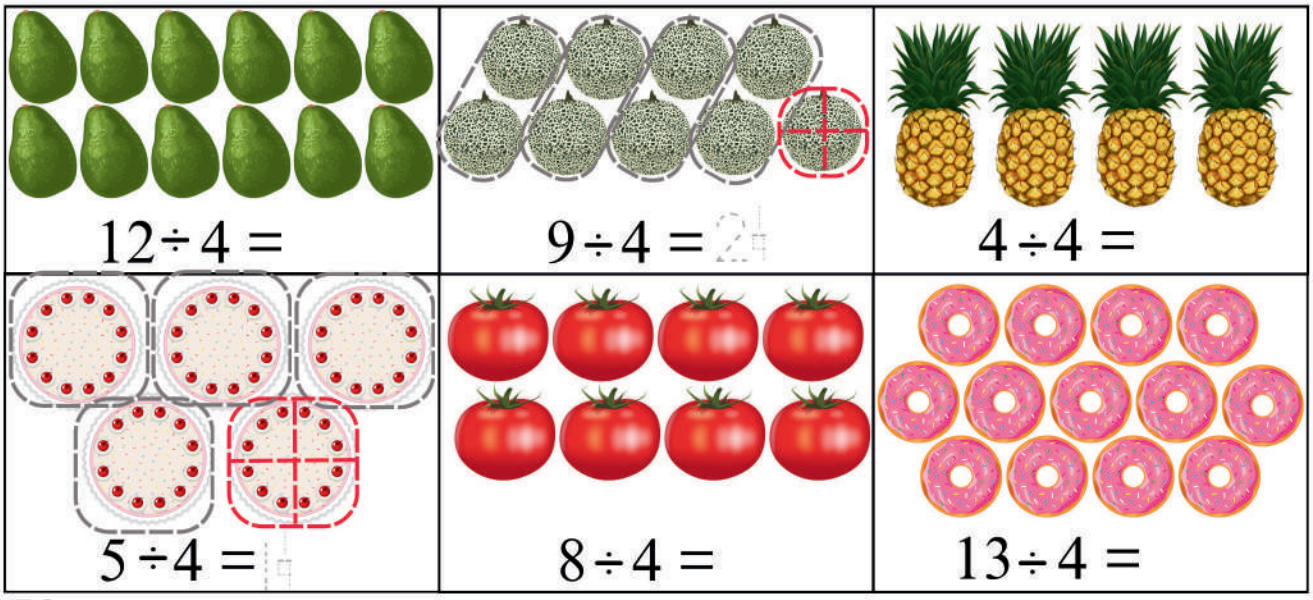
Multiples of 4

4	8	12	16
20	24	28	32
36	40	44	48

Draw lines to divide each set into equal halves. If there is a leftover, circle it in red, then use a vertical line to cut it in half. Split the HALVES between the two groups. How many are in each group?

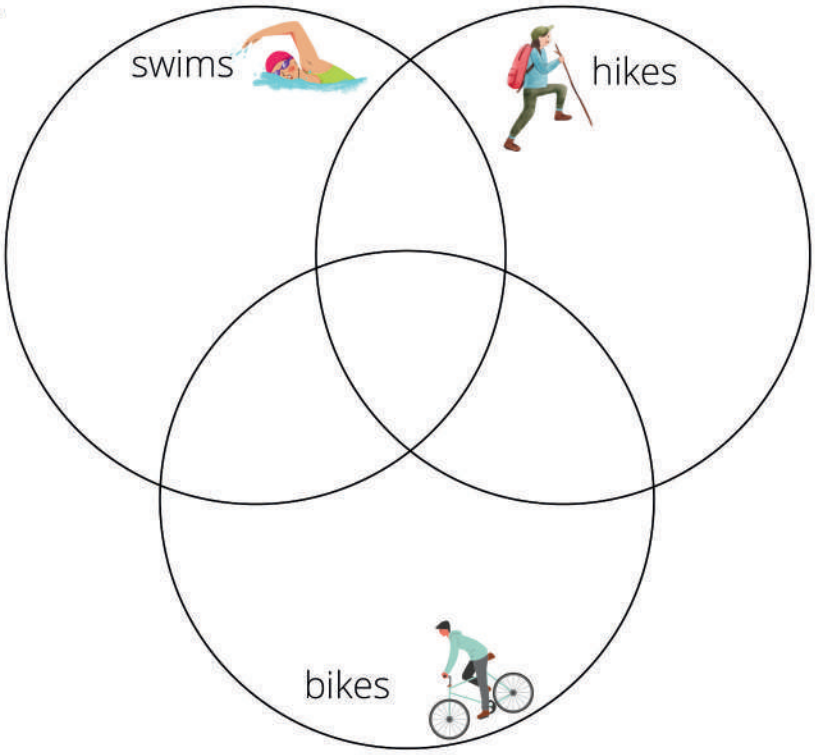


Draw lines to divide each set into equal FOURTHS. Each fourth is one group. If there is a leftover, circle it in red, then use two lines to cut it into FOURTHS. Split the leftover FOURTH between the groups. How many are in each group?

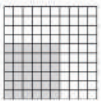


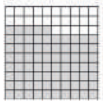
Use this chart to fill out both of the Venn Diagrams below with traits the kids in the chart have in common.

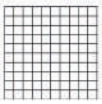
name	swims	hikes	bikes
Elsa		X	X
Caleb			X
Mae	X	X	X
Lizzy	X	X	
Henry	X		
Jason		X	
Brandt	X	X	X
Claire		X	
Jen	X	X	X
Natali	X	X	
Levi	X		
Nat		X	X
Katie	X	X	
Lily			X

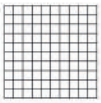


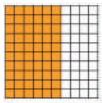
Each block has 100 squares. Fill in the blanks and color squares to show each percentage.

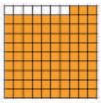

$36\% = \frac{36}{100}$

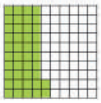

$\square\% = \frac{75}{100}$

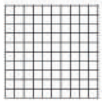

$54\% = \frac{}{100}$

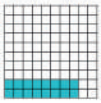

$12\% = \frac{}{100}$

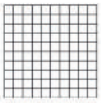

$\square\% = \frac{}{100}$

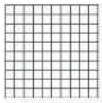

$\square\% = \frac{}{100}$

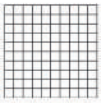

$\square\% = \frac{}{100}$


$\square\% = \frac{99}{100}$


$\square\% = \frac{}{100}$


$\square\% = \frac{1}{100}$


$88\% = \frac{}{100}$


$46\% = \frac{}{100}$

Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct.

3		12
		96
24	48	

3		27
		21
9	63	

3		24
		50
30	40	

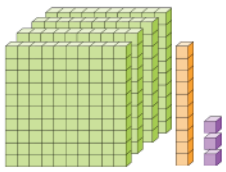
3		18
		132
36	66	

Date _____

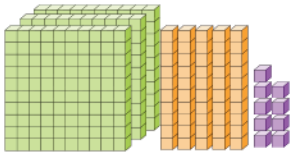
Complete the chart. Draw base ten blocks using a cube to represent each thousand, a large square to represent each hundred, a long, skinny rectangle to represent each ten and and a small square to represent each one.

Standard Form Word Form Expanded Form	Base Ten Blocks
2,193 Two thousand one hundred ninety-three 2000 + 100 + 90 + 3 Thousands Hundreds Tens Ones	Thousands Hundreds Tens Ones
4,532 Thousands Hundreds Tens Ones	Thousands Hundreds Tens Ones
2,679 Thousands Hundreds Tens Ones	Thousands Hundreds Tens Ones
3,018 Thousands Hundreds Tens Ones	Thousands Hundreds Tens Ones

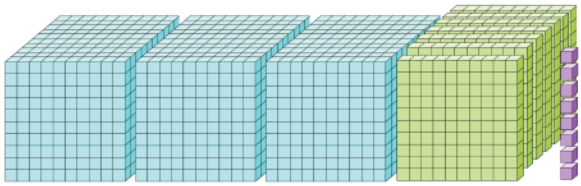
What numbers do these base ten blocks represent? Read each number aloud.



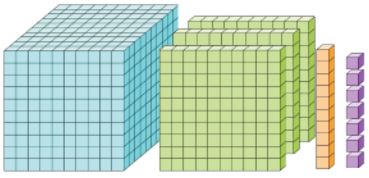
hundreds tens ones



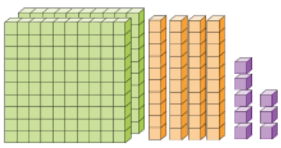
hundreds tens ones



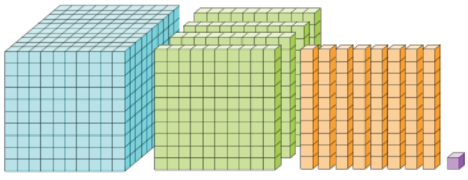
thousands hundreds tens ones



thousands hundreds tens ones

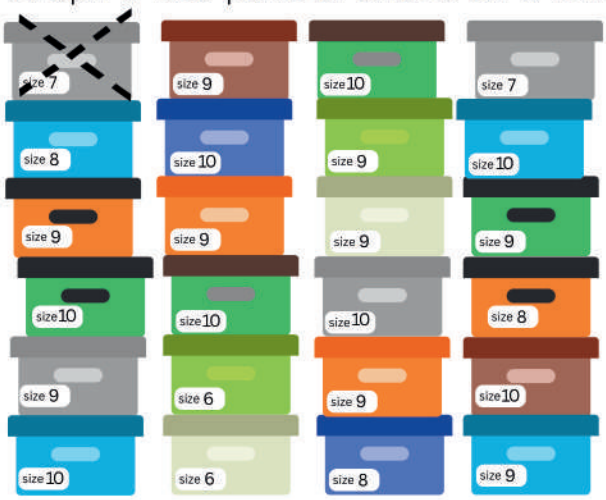


hundreds tens ones

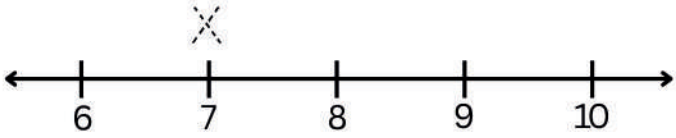


thousands hundreds tens ones

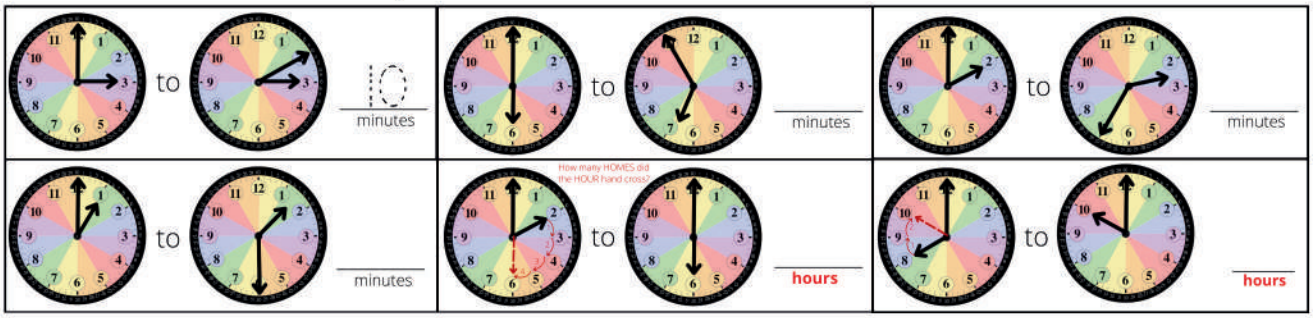
Graph these pairs of shoes on the line plot using x's.



Why did I choose the numbers 6-10 for this line plot number line?



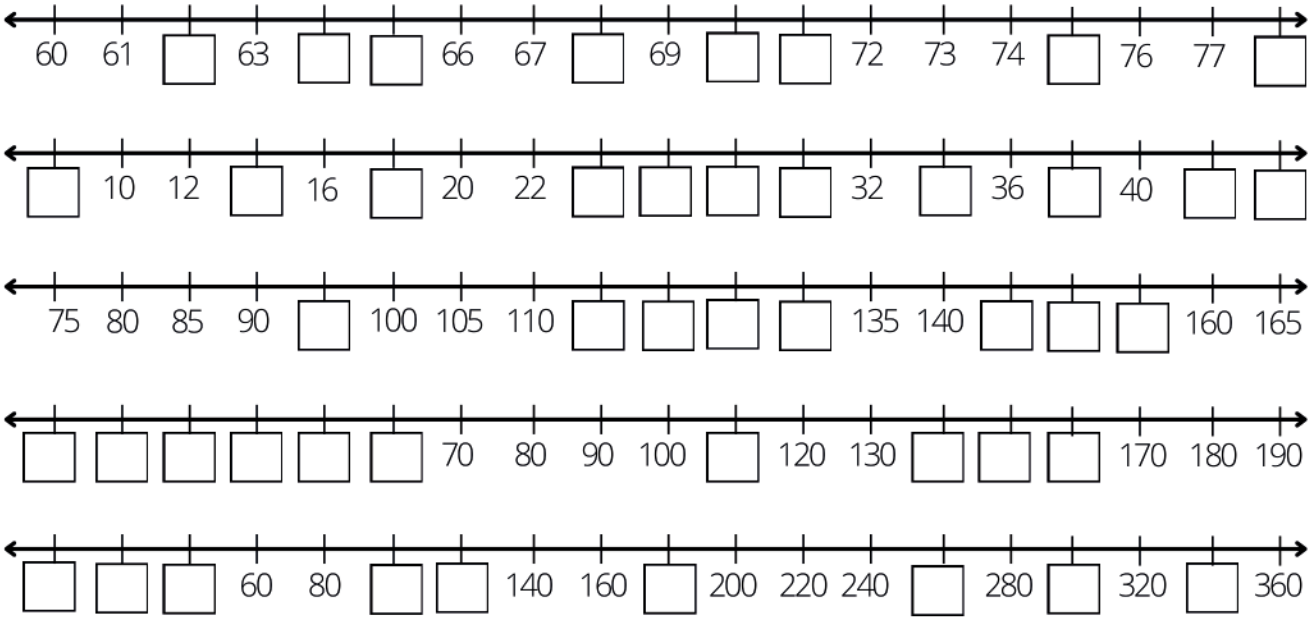
How much time has elapsed between each set of clocks?



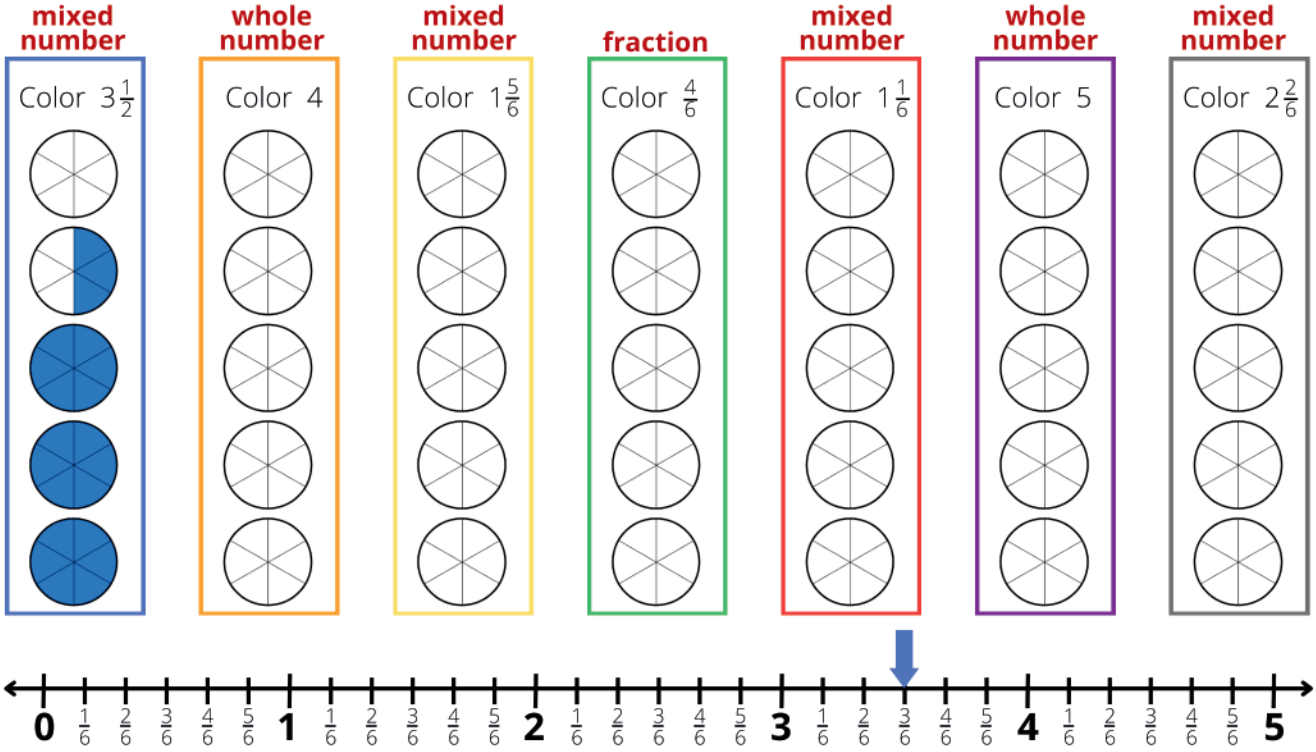
How much time has elapsed?

Date _____

Figure out the SCALE of each number line, then fill in the missing numbers.

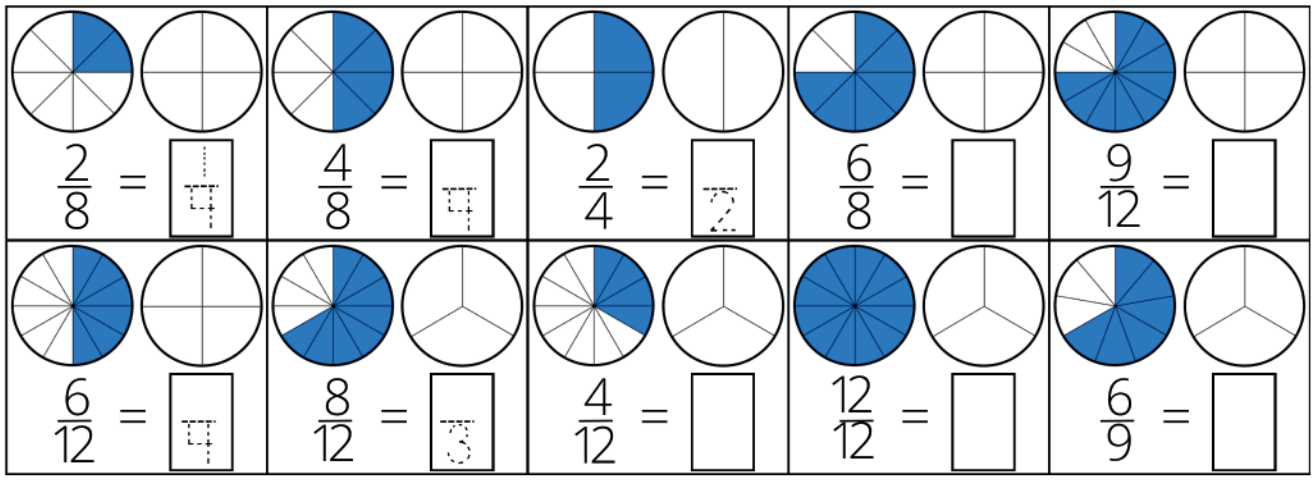


Color the number in each colored rectangle. Then draw an arrow that color pointing to the number on the number line below. Some of these fractions have two names.

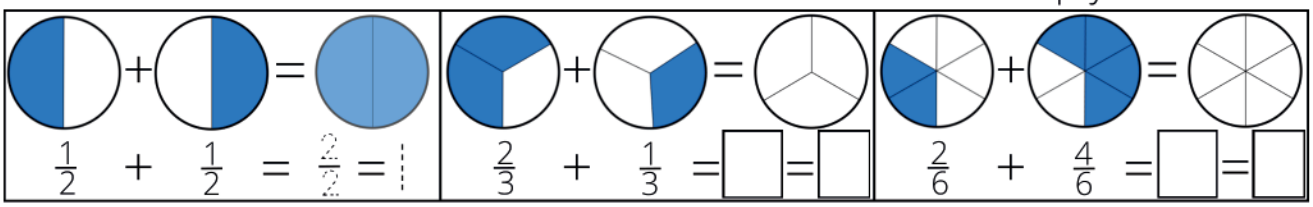


See how this number line has fractions divided into sixths. Why?

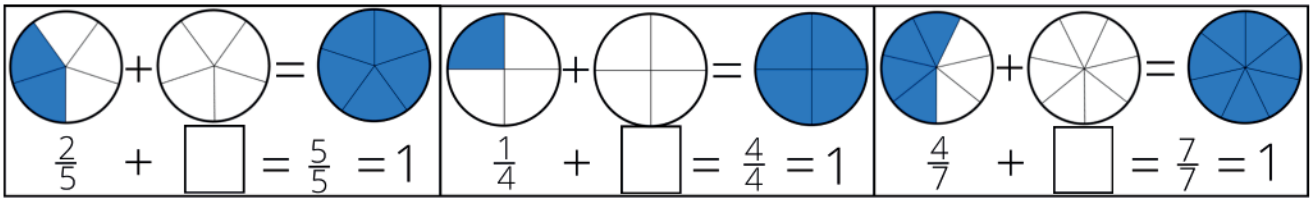
Color the shape on the RIGHT so it matches the shape on the LEFT. Then write each equivalent fractions number sentence.



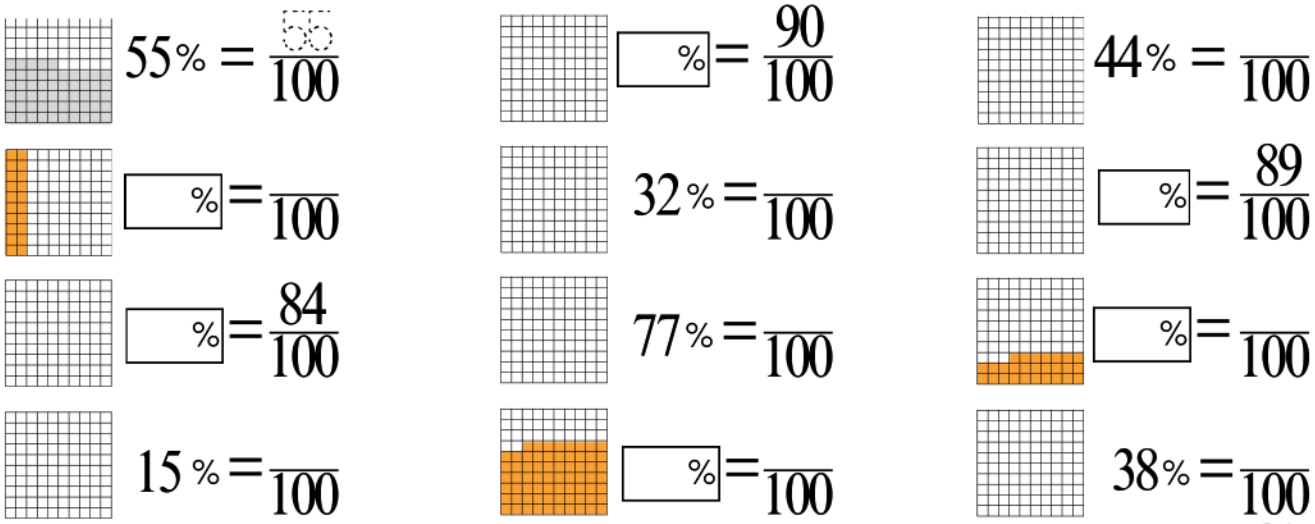
Add the fractions to find the SUM. Color the sections of the empty circle.



Find the missing fraction and color the sections of the empty circle.

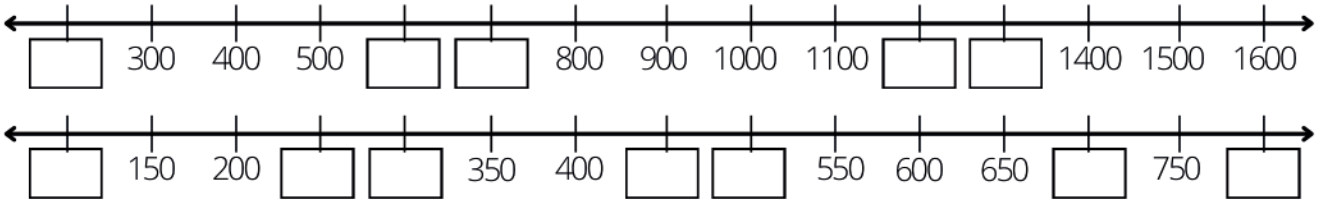


Each block has 100 squares. Fill in the blanks and color squares to show each percentage.



Date _____

Figure out the SCALE of each number line, then fill in the missing numbers.



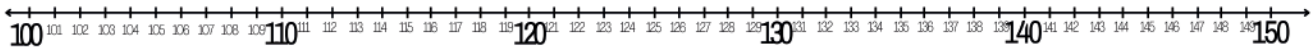
Each of the following numbers will be used once to answer a question below. Cross the number out after you use it.

955	742	555	399	744
300	282	110	803	1001

1. This number has the same number of ones, tens and hundreds. _____
2. This number is the least. _____
3. This number has three ONES. _____
4. This number is one less than four hundred. _____
5. This number is the most. _____
6. All of the digits in this number are EVEN. _____
7. This number has zero tens and zero ones. _____
8. This number has nine HUNDREDS. _____
9. This number has the same number of tens and ones, but not hundreds.

   _____
10. This number has twice as many TENS as ONES. _____

Find the two numbers you are comparing on the number line. The number FARTHEST to the right is the LARGEST. Read each number sentence out loud.



141 ◯ 114 103 ◯ 130 119 ◯ 120 147 ◯ 144

105 ◯ 150 121 ◯ 112 109 ◯ 120 138 ◯ 138

1981 ◯ 1891 1619 ◯ 1916 2001 ◯ 1999 2085 ◯ 1852

1763 ◯ 1673 1704 ◯ 1704 1780 ◯ 1870 2080 ◯ 2090

Convert these length units.

18 ft = _____ yd

5 m = _____ mm

200 mm = _____ cm

1 mi = _____ ft

17 feet = _____ yd _____ ft

Convert these capacity units.

10 qt = _____ gal _____ pt

2 c = _____ oz

18 c = _____ gal _____ c

4 oz = _____ Tbsp

2 gal = _____ qt

Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct.

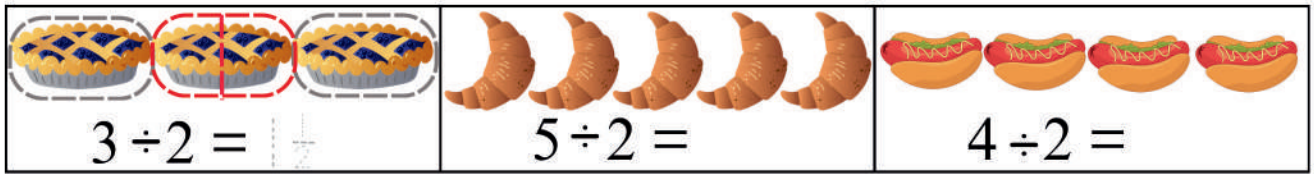
3		18
		36
12	54	

3		24
		30
30	24	

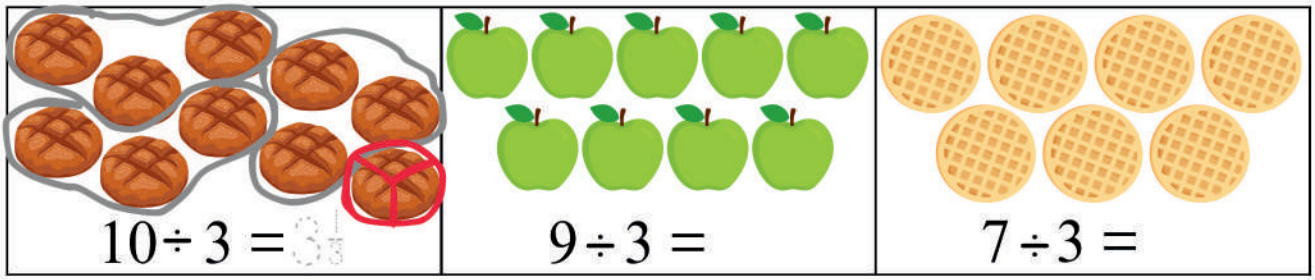
3		9
		77
21	33	

3		36
		15
15	36	

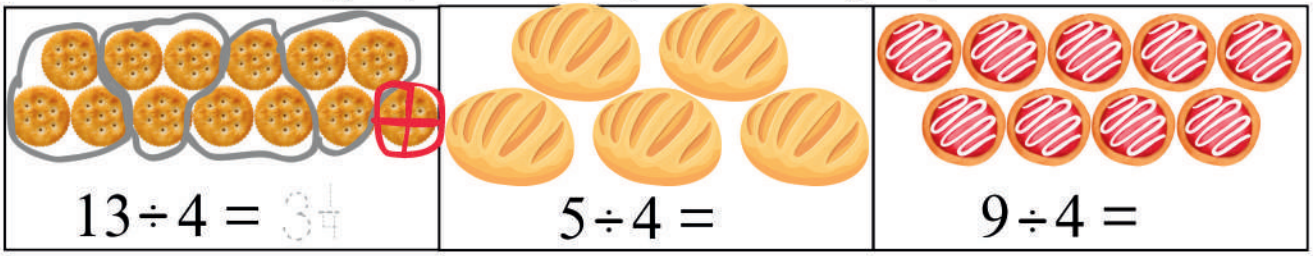
Divide each set into equal halves by drawing lines around groups. Split any leftover in HALF between the two groups. How many are in each group?



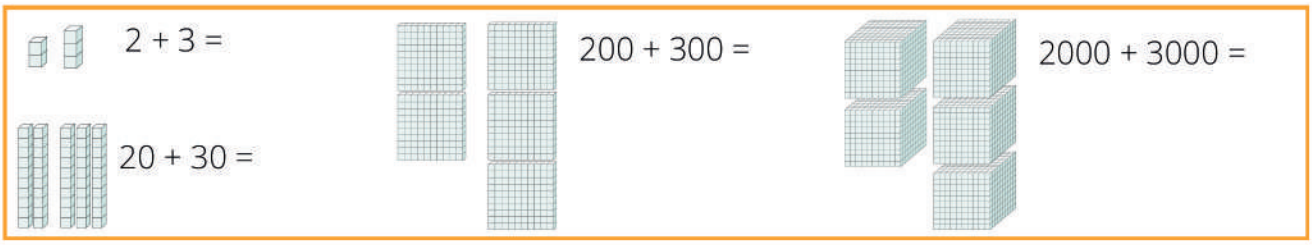
Divide each set into THIRDS by drawing lines around equal groups. Split any leftover equally between the THREE groups. How many are in each group?



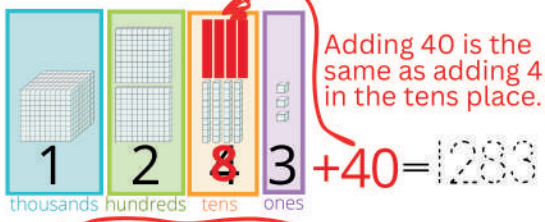
Divide each set into FOUR equal groups. Split any leftover items equally between the FOUR groups. How many are in each group?

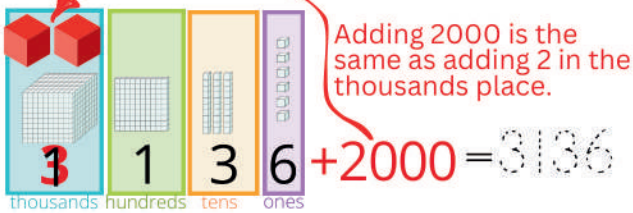


Date _____



Find the sums.





7241 + 400 = _____ add 4 in the hundreds place

1325 + 3 = _____ add 3 in the ones place

8134 + 20 = _____ add 2 in the tens place

2768 + 5000 = _____ add 5 in the thousands place

4092 + 400 = _____ add 4 in the hundreds place

3610 + 1000 = _____ add 1 in the thousands place

5507 + 300 = _____ add 3 in the hunreds place

Find the products.

3 x 9 = ____
3 x 6 = ____
3 x 8 = ____
3 x 5 = ____
3 x 7 = ____
3 x 3 = ____
3 x 11 = ____
3 x 10 = ____
3 x 4 = ____
3 x 12 = ____
3 x 2 = ____
3 x 1 = ____

four, three times equals three, four times

4 x 6 = ____
4 x 12 = ____
4 x 1 = ____
4 x 5 = ____
4 x 11 = ____
4 x 4 = ____
4 x 7 = ____
4 x 1 = ____
4 x 3 = ____
4 x 8 = ____
4 x 9 = ____
4 x 10 = ____

Find the quotients.

12÷4 = ___
21÷3 = ___
27÷3 = ___
36÷4 = ___
12÷3 = ___
32÷4 = ___
24÷4 = ___
15÷3 = ___
28÷4 = ___
24÷3 = ___
48÷4 = ___
36÷3 = ___

The commutative property of multiplication states that the same numbers can be multiplied in any order and the resulting PRODUCT will be the same.

Word Form	Expanded	Standard
Eight hundred fifty-three	800+50+3	853
One thousand ninety-six		
Two hundred eighty-seven		
Nine hundred forty		
One hundred nineteen		
Three hundred three		
Five hundred sixty-eight		
Six hundred fifty-two		
Four hundred forty-four		
One thousand four hundred		

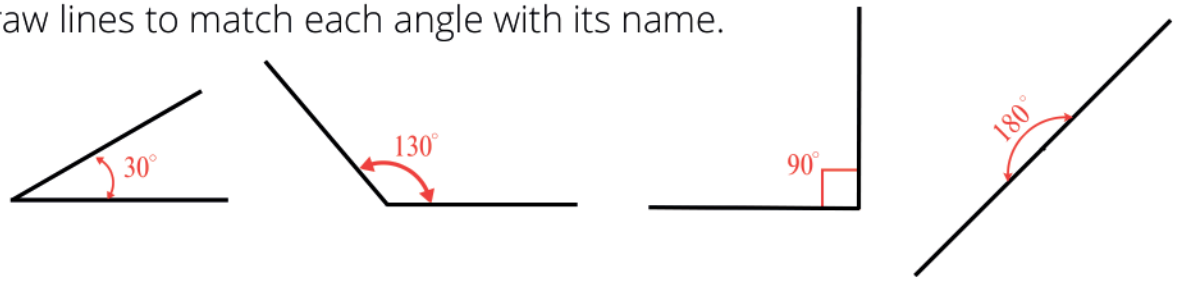
Which number is the largest?

Which number is the smallest?

Which number has all even digits?

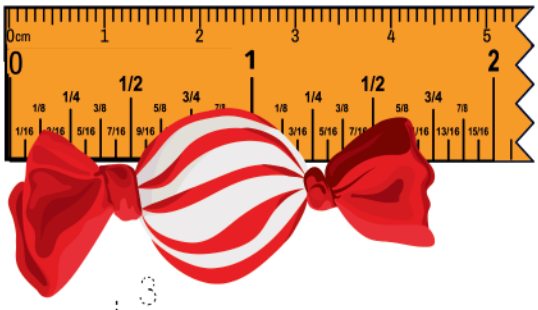
Which number has zero tens and zero ones?

Draw lines to match each angle with its name.

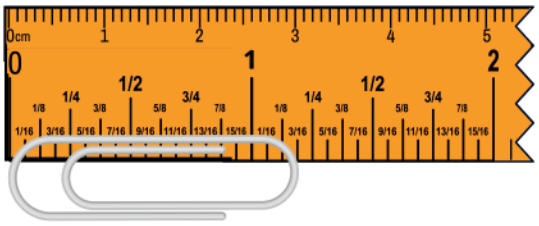


straight obtuse acute right

Use these broken pieces of rulers to find the length of each item.



1 3/4 in. 4cm 5mm



_____ _____

Use a ruler to measure these line segments in customary and metric units.

2 1/2 in. 6cm 4mm

_____ _____

Date _____

Find the sums.

thousands	hundreds	tens	ones
	1	1	0 2
		7	1
+		5	2 5

thousands	hundreds	tens	ones
		8	0 3
		1	5 1
+	5	0	2 4

thousands	hundreds	tens	ones
			9 9
			9
+	1	5	3 1

thousands	hundreds	tens	ones
	1	6	5 7
		5	6
+		3	3

thousands	hundreds	tens	ones
	3	2	0 7
	1	7	1 2
+	2	2	4 1

Use the templates at the right to figure out these SUMS.

1012 + 453 + 901 = _____

514 + 3010 + 25 = _____

2385 + 119 + 74 = _____

thousands	hundreds	tens	ones
+			

thousands	hundreds	tens	ones
+			

thousands	hundreds	tens	ones
+			

Use the tens and ones charts to find the differences.

tens	ones
6	8
- 2	7

tens	ones
4	5
- 3	1

tens	ones
3	7
- 1	9

tens	ones
5	0
- 3	6

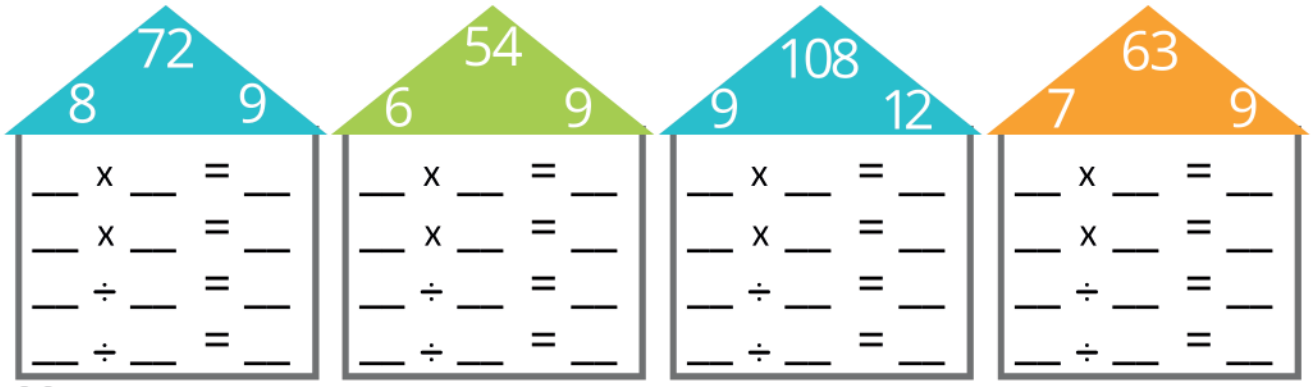
tens	ones
8	9
- 4	3

tens	ones
7	0
- 3	8

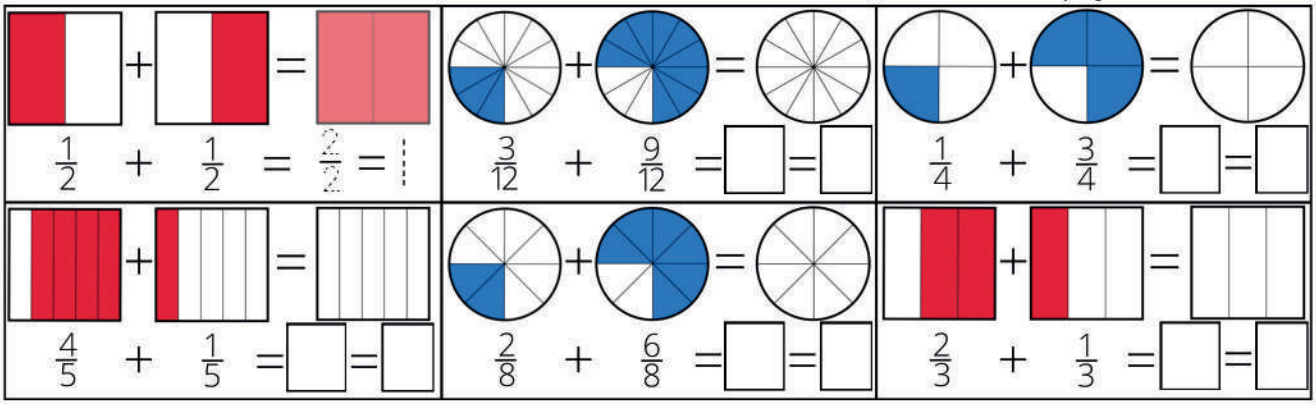
tens	ones
5	3
- 2	4

tens	ones
6	1
- 4	2

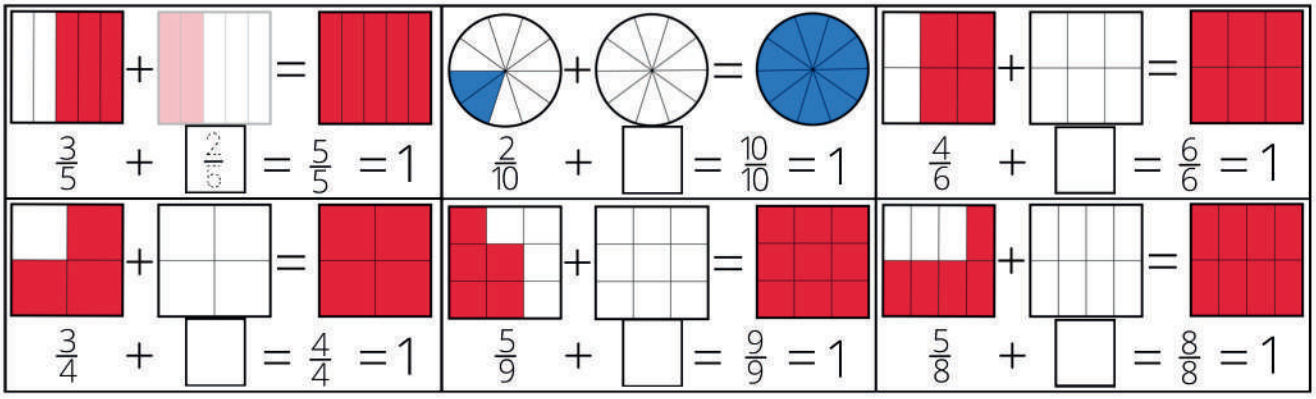
Complete these Fact Family houses.



Add the fractions to find the SUM. Color the sections of the empty circle.



Find the missing fraction and color the sections of the empty circle.



How much money is this?

$\_\_\_.\_\_\_$ dollars cents

$\_\_\_.\_\_\_$ dollars cents

$\_\_\_.\_\_\_$ dollars cents

$\_\_\_.\_\_\_$ dollars cents

$\_\_\_.\_\_\_$ dollars cents

1212 + 300 = _____ add 3 in the hundreds place

5375 + 3000 =_____ add 3 in the thousands place

4838 + 50 = _____ add 5 in the tens place

2128 + 500 = _____ add 5 in the hundreds place

4059 + 20 = _____ add 2 in the tens place

6630 + 2000 = _____ add 2 in the thousands place

3546 + 400 = _____ add 4 in the hunreds place

5010 + 6 = _____ add 6 in the ones place

1102 + 30 = _____ add 3 in the tens place

1018 + 200 = _____ add 2 in the hundreds place

768 + 4000 = _____ add 4 in the thousands place

1249 + 400 = _____ add 4 in the hundreds place

2410 + 1000 = _____ add 1 in the thousands place

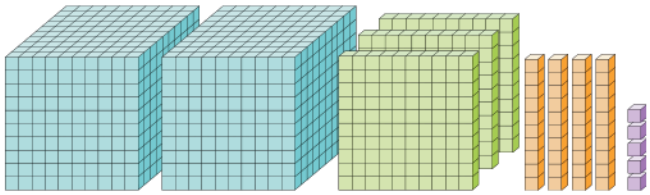
1401 + 8 = _____ add 8 in the ones place

Date _____

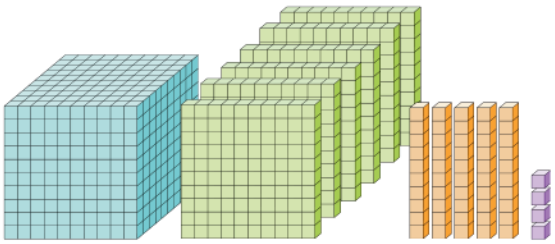
Write the missing numbers to complete each equation.

□13 +1□□ 637	2□2 +□7□ 375	3□□ +□23 868	□3□ +5□1 992	12□ +□□4 364
□20 +2□4 94□	□15 +10□ 4□8	353 +1□□ □76	25□ +4□1 □69	5□7 +□41 87□
1 ← Tricky, tricky! We moved a TEN over. □22 +2□□ 551	11 □17 +1□□ 500	1 □75 +1□□ 719	1 □5□ +4□3 771	11 5□7 +□4□ 912
515 +□ 917	□ +234 655	728 +□ 868	□ +432 595	325 +□ 479
11 155 +□ 553	11 □ +246 644	11 456 +□ 832	11 □ +268 855	11 289 +□ 564

Find the value of the base ten blocks.



thousands hundreds tens ones



thousands hundreds tens ones

Plot each number on the number line, then round to the nearest TEN:

Rounding to the nearest ten? Circle the TENS place, then underline the number in the ONES place.

15 __20__
Five or more? Let the 1 soar (round up to 2).

12 __10__
Four or less? Let the 1 rest.

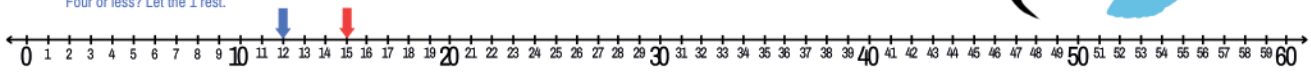
37 _____

42 _____

25 _____

56 _____

Four or less? Let it rest.
Five or more? Let it soar.



Round to the nearest HUNDRED:

Rounding to the nearest hundred? Circle the HUNDREDS place, then underline the number in the TENS place.

650 __700__
Five or more? Let the 6 soar (round up to 7).

149 __100__
Four or less? Let the 1 rest.

287 __300__
Five or more? Let the 2 soar (round UP to 3).

125 _____

399 _____

605 _____

475 _____

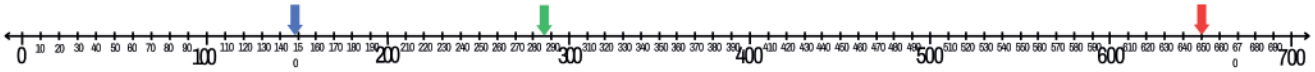
333 _____

590 _____

551_____

549_____

228_____



Round to the nearest THOUSAND:

Rounding to the nearest thousand? Circle the THOUSANDS place, then underline the number in the HUNDREDS place.

if there is no digit, it's a zero

0505 __1000__
Five or more? Let the 0 soar (round UP to 1).

2719 __3000__
Five or more? Let the 2 soar (round UP to 3).

1182 __1000__
Four or less? Let the 1 rest.

382 _____

998 _____

1550 _____

2939 _____

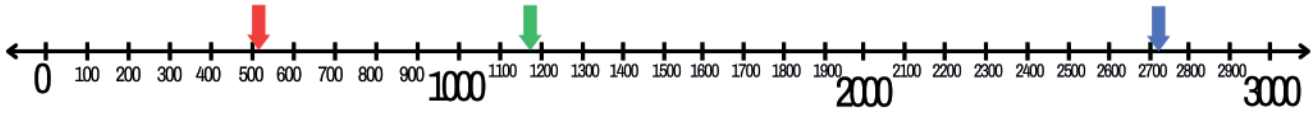
2530 _____

1344 _____

213_____

2812_____

1827_____



Use a ruler to measure these line segments in customary and metric units.

__3/4 in.__ __2 cm__

_____ _____

_____ _____

_____ _____

_____ _____

Date _____

Decompose numbers into smaller parts that are easier to add and subtract.

Example: 23 + 45 = ?

(20 + 3) + (40 + 5) = ?

then regroup the numbers; tens together and ones together

(20 + 40) + (3 + 5) = 68

and presto!

easy to add! easy to add!

Use mental math to find the sum of each problem.

Problem	Decompose	Rearrange	Sum
31 + 44	(30 + 1) + (40 + 4)	(30 + 40) + (1 + 4)	75
25 + 34	(20 + 5) + (30 + 4)	(20 + 30) + (5 + 4)	59
46 + 12	(40 + 6) + (10 + 2)	(40 + 10) + (6 + 2)	
52 + 41	( ) + ( )	( ) + ( )	
22 + 60	( ) + ( )	( ) + ( )	
43 + 54			
17 + 52			
61 + 38			
35 + 23			
83 + 15			

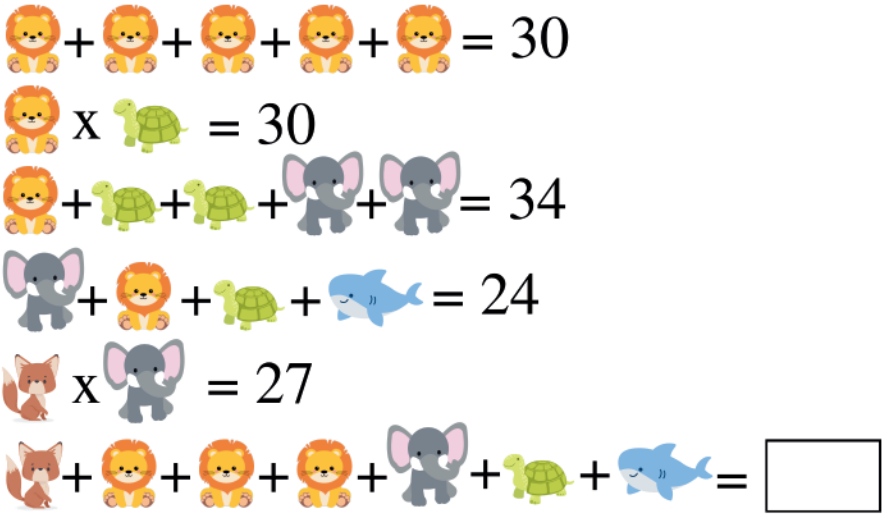
When you have too many ones, regroup them into TENS and ones.

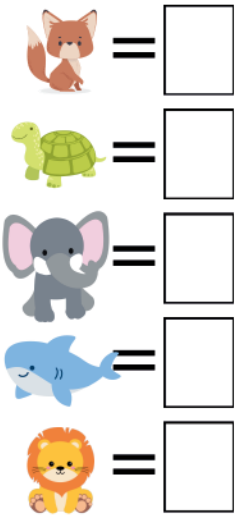
56 + 38	(50 + 6) + (30 + 8)	80 (50 + 30) + (14) + 10 + 4	94
47 + 36	(40 + 7) + (30 + 6)	70 (40 + 30) + (13) + 10 + 3	83
35 + 29			

Write the missing numbers to complete each equation.

□1□ +3□4 776	2□4 +□0□ 318	331 +□□□ 654	915 +□□□ 975	□□□ +243 343
312 +□ 624	□ +102 216	323 +□ 346	□ +311 612	217 +□ 537
11 343 +□ 740	11 □ +186 301	11 367 +□ 533	11 □ +238 627	11 179 +□ 553

Each animal represents a missing number. What number does each animal represent?





Could we have used different animal to represent each number? Let's use LETTERS to represent numbers. What number does each letter represent?

$X+X+X=12$

$X+Z=7$

$Z+X+Y=12$

$X+X+Z+Y+Y=$ □

$14-X=$ □

$28-Z=$ □

$Y+11=$ □

$X+5=$ □

$X=$ □

$Y=$ □

$Z=$ □

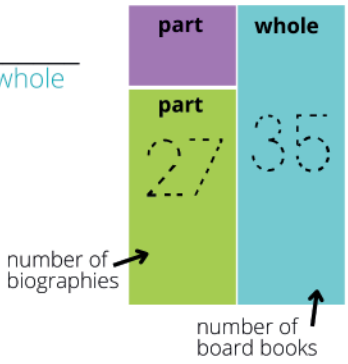
Date _____

You are a library volunteer and they need your help to organize the children's section. You counted the number of books they have in each category.

picture books	117
chapter books	248
early readers	88
board books	35
biographies	27
nonfiction	175

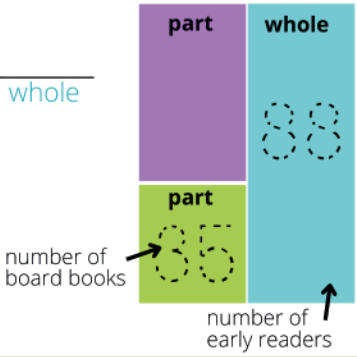
How many more board books are there than biographies?

_____ part + _____ part = _____ whole



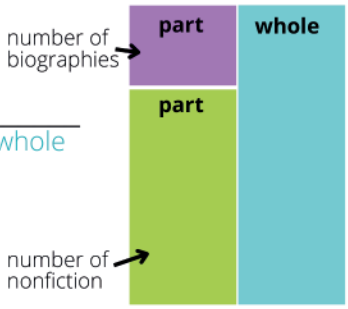
How many fewer board books does the library have than early readers?

_____ part + _____ part = _____ whole



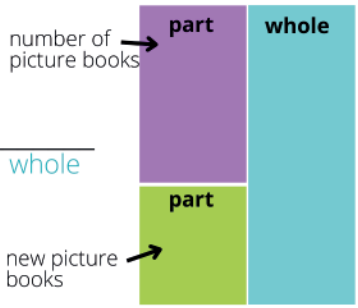
We want to shelve the biographies and nonfiction books together. How many are there altogether?

_____ part + _____ part = _____ whole



Three boxes, each with 12 picture books were delivered. How many picture books do we have now?

_____ part + _____ part = _____ whole



How many books does our children's section contain altogether (include the new picture books). Draw a picture and write a number sentence.

X represents the missing addends. What does x represent?

10 - X = 3 X = ___

X + 3 = 7 X = ___

5 + X = 7 X = ___

10 - X = 4 X = ___

9 - X = 5 X = ___

X + 8 = 10 X = ___

The clocks in the second column show the current time. Draw hands on the clocks in the other columns to show quarter before the current time, then quarter after and half past. Remember that the MINUTE hand moves around the entire circle while the HOUR hand just moves across it's HOME.

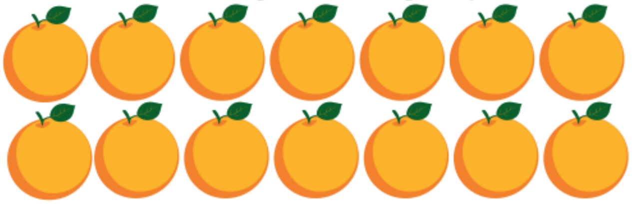
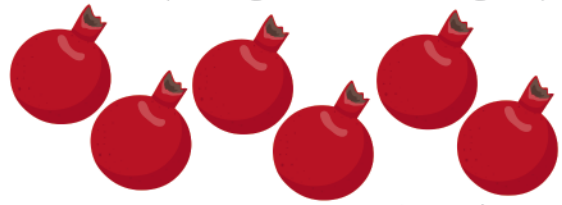
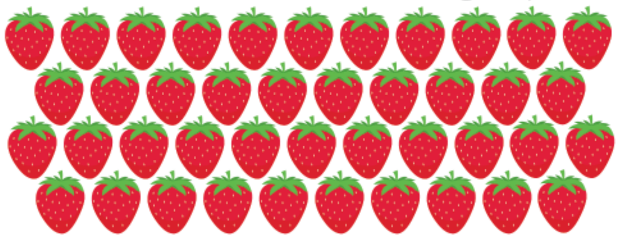
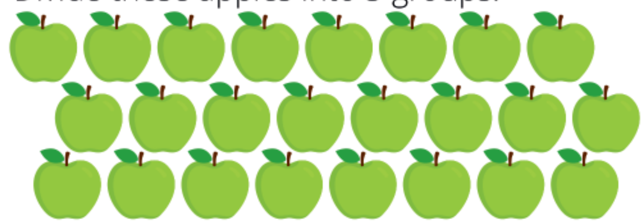
Quarter Before	Current Time	Quarter After	Half Past
			
			
			

What comes next?

450, 460, 470, _____, _____, _____, _____, _____, _____, _____

112, 109, 106, _____, _____, _____, _____, _____, _____, _____

Date ____

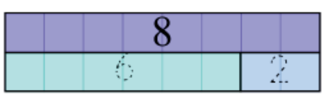
Divide these oranges into 2 groups.  How many oranges are in each group? What is $\frac{1}{2}$ of 14?	Divide these pomegranates into 3 groups.  How many pomegranates are in each group? What is $\frac{1}{3}$ of 6?
Divide these strawberries into 7 groups.  What is $\frac{1}{7}$ of 42?	Divide these apples into 3 groups.  What is $\frac{1}{3}$ of 24?

Finish the pattern:

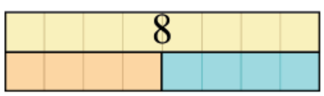
380, 385, 390, _____, _____, _____, _____, _____, _____

393, 396, 399, _____, _____, _____, _____, _____, _____

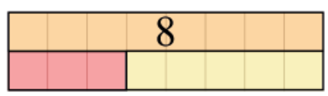
Identify and label all of the parts, then complete the number sentences.



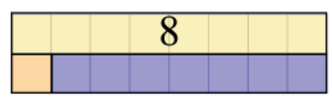
8 = 6 + 2
8 = 2 + 6



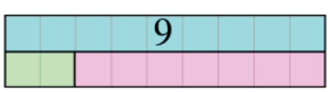
8 = ___ + ___
8 = ___ + ___



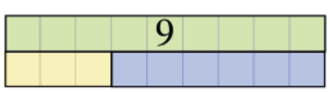
8 = ___ + ___
8 = ___ + ___



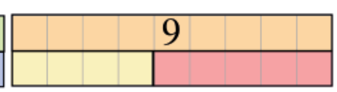
8 = ___ + ___
8 = ___ + ___



9 = ___ + ___
9 = ___ + ___



9 = ___ + ___
9 = ___ + ___



9 = ___ + ___
9 = ___ + ___

9 = ___ + ___
9 = ___ + ___

What is the Commutative Property of Addition? ______________________

____

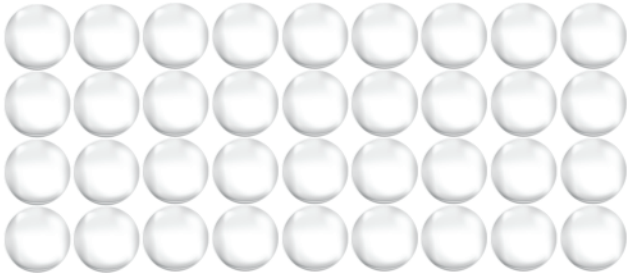
Divide these marbles into 4 groups.

Color $\frac{1}{4}$ of the marbles yellow and $\frac{3}{4}$ of the marbles red.

Divide these marbles into 3 groups.

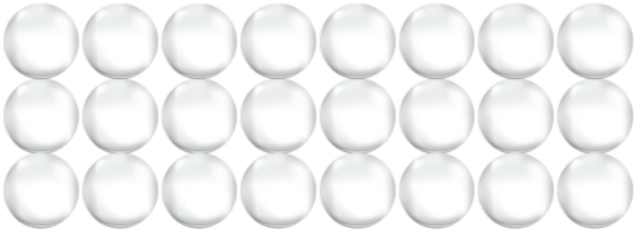
Color $\frac{1}{3}$ green and $\frac{2}{3}$ blue.

Divide these marbles into 6 groups.



Color $\frac{2}{6}$ red and $\frac{3}{6}$ blue. Leave the rest white. How many are white?

Divide these marbles into 6 groups.



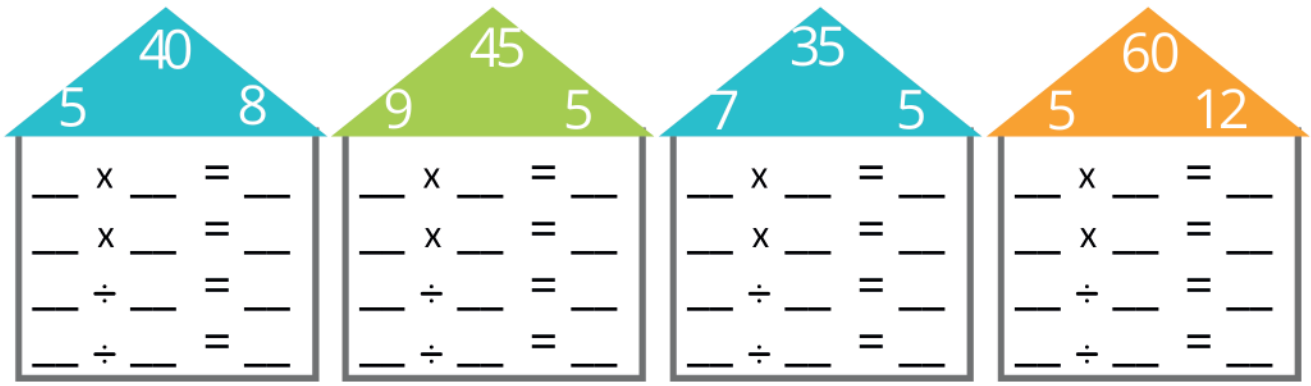
Color $\frac{5}{6}$ purple and $\frac{1}{6}$ orange

Use your FRACTION CIRCLES to compare these fractions by drawing the correct comparison symbol (<, >, =) between them.

$\frac{1}{2} < \frac{3}{4}$ $\quad \frac{2}{8} \quad \frac{1}{4}$ $\quad \frac{2}{7} \quad \frac{2}{3}$

$\frac{3}{6} \quad \frac{4}{8}$ $\quad \frac{5}{6} \quad \frac{5}{8}$ $\quad \frac{4}{6} \quad \frac{2}{3}$

Complete these Fact Family houses.



Date _____

Division Symbols:

$\frac{8}{4} = 2$	$8 \div 4 = 2$	$4\overline{)8}^{\,2}$	divisor $\overline{)}$ dividend, quotient

Truths:

Division by ZERO is UNDEFINED.
0/0 is INDETERMINATE.
Division by ONE is ITSELF.
Multiplication by one is itself.

Use circles to group the items, then complete the equations.

$\frac{24}{3} =$ $24 \div 3 =$ $3\overline{)24}$ What is 1/3 of 24?

$\frac{25}{5} =$ $25 \div 5 =$ $5\overline{)25}$ What is 1/5 of 25?

$\frac{12}{3} =$ $12 \div 3 =$ $3\overline{)12}$ What is 1/3 of 12?

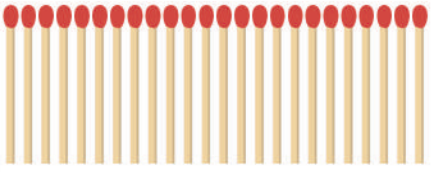
Divide the marbles into SIX equal groups.

What is 1/6 of 18?
What is 2/6 of 18?
What is 3/6 of 18?
What is 4/6 of 18?
What is 5/6 of 18?
What is 6/6 of 18?

Divide the cubes into SIX equal groups.

What is 1/6 of 12?
What is 2/6 of 12?
What is 3/6 of 12?
What is 4/6 of 12?
What is 5/6 of 12?
What is 6/6 of 12?

Divide the matchsticks into SIX equal groups.



What is 1/6 of 24?
What is 2/6 of 24?
What is 3/6 of 24?
What is 4/6 of 24?
What is 5/6 of 24?
What is 6/6 of 24?

Draw lines to match each fraction to its meaning.

0	$\frac{4}{2}$
1	$\frac{1}{0}$
indeterminate	$\frac{1}{1}$
undefined	$\frac{0}{0}$
2	$\frac{0}{1}$

Put these numbers in order from smallest to largest.

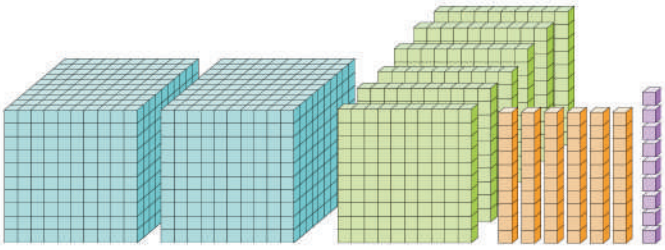
512	521	502	215	520

smallest ____ ____ ____ largest

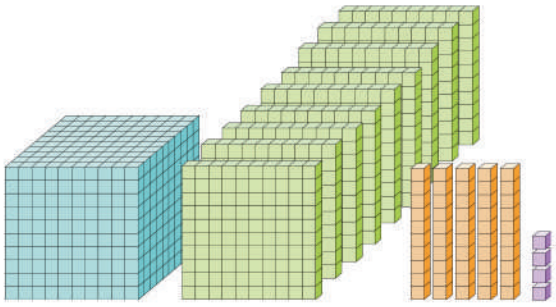
697	796	976	679	967

smallest ____ ____ ____ largest

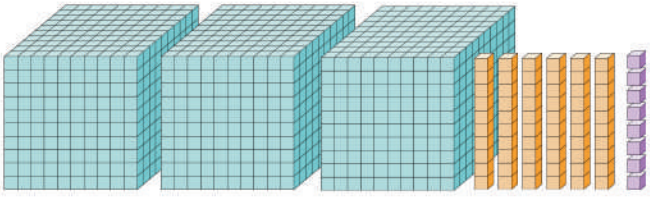
Find the value of the base ten blocks.



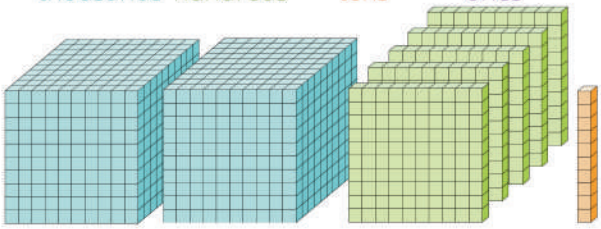
thousands hundreds tens ones



thousands hundreds tens ones



thousands hundreds tens ones



thousands hundreds tens ones

Date _____

Exponents:

2^0= ____

3^0= ____

4^0= ____

5^0= ____

2^1= ____

3^1= ____

4^1= ____

5^1= ____

2^2= 2 x 2 = ____

3^2= 3 x 3 = ____

4^2= 4 x 4 = ____

5^2= 5 x 5 = ____

2^3= 2 x 2 x 2 = ____

3^3= 3 x 3 x 3 = ____

4^3= 4 x 4 x 4 = ____

5^3= 5 x 5 x 5 = ____

2^4= 2 x 2 x 2 x 2 = ____

3^4= 3 x 3 x 3 x 3 = ____

4^4= 4 x 4 x 4 x 4 = ____

5^4= 5 x 5 x 5 x 5 = ____

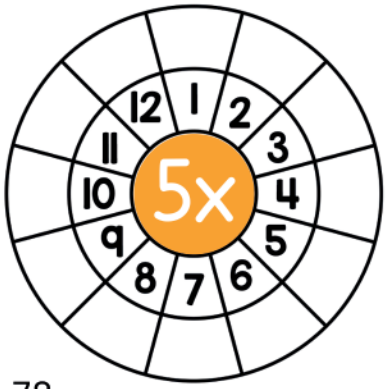
2^5= 2 x 2 x 2 x 2 x 2 = ____

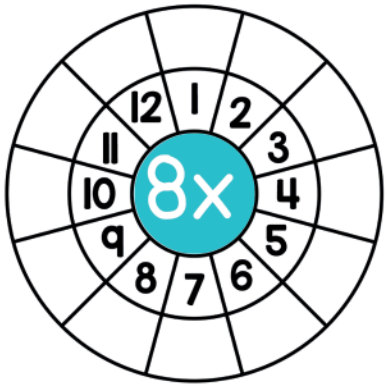
3^5= 3 x 3 x 3 x 3 x 3 = ____

4^5= 4 x 4 x 4 x 4 x 4 = ____

5^5= 5 x 5 x 5 x 5 x 5 = ____

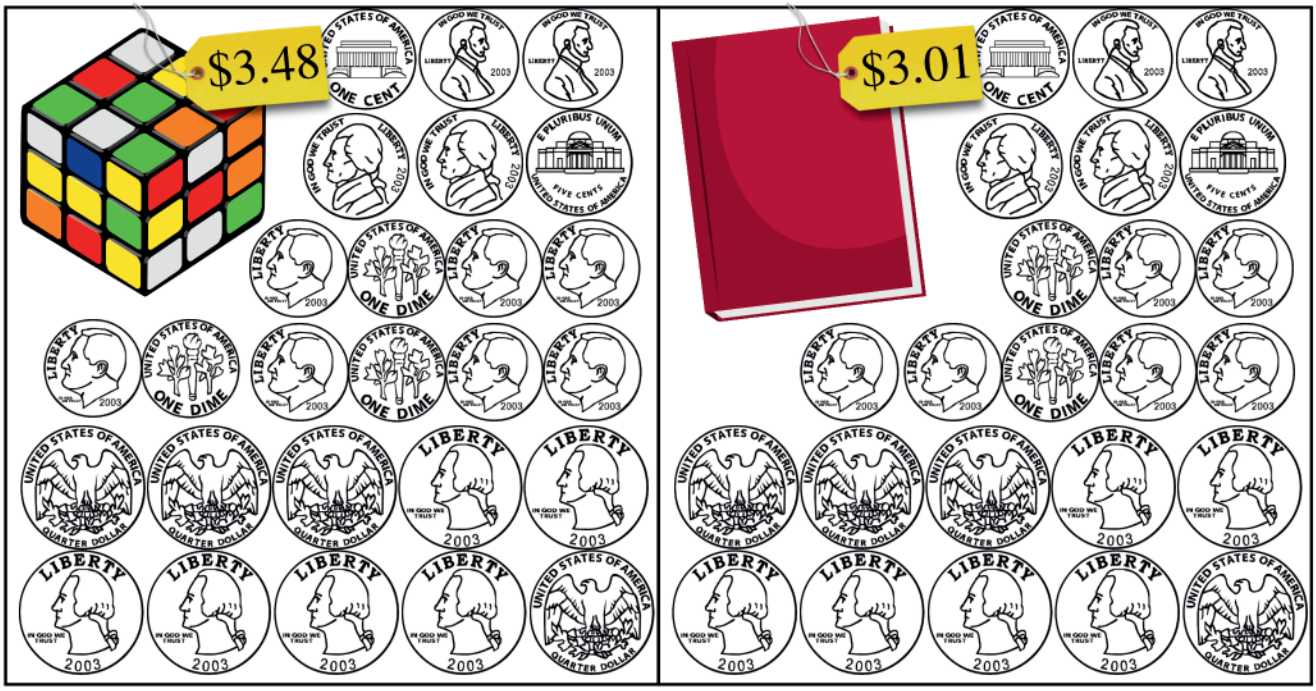
Multiply the number by each of the numbers in the center circle. Write the products in the outer circle.



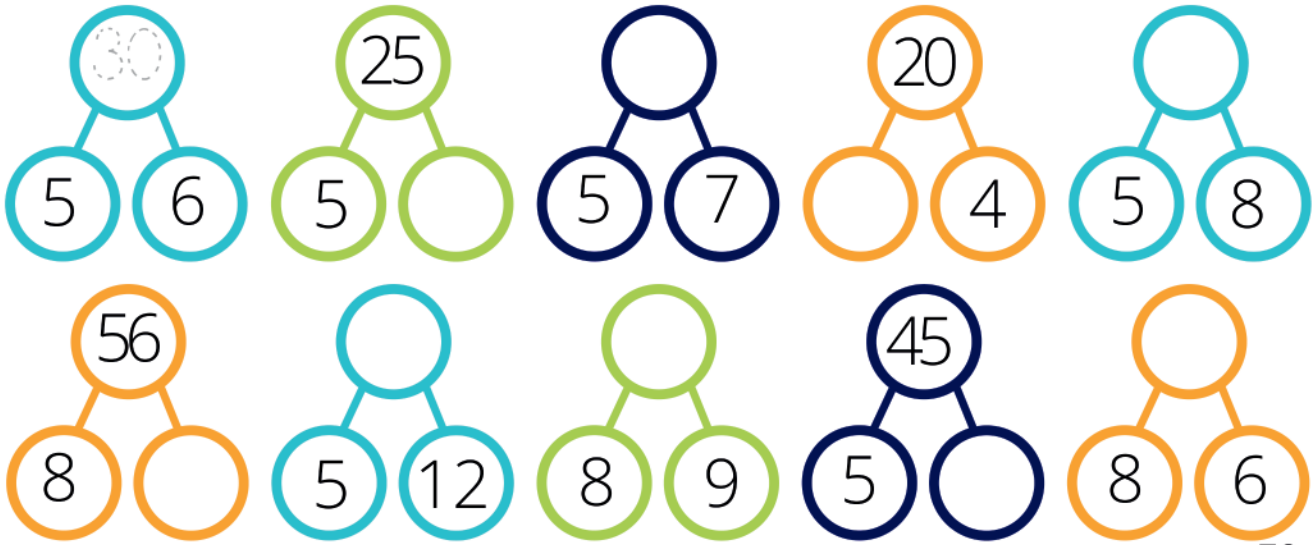


2 less		2 more	20 less		20 more	200 less		200 more
85	87	89	125	145	165	197	397	597
____	116	____	____	352	____	____	401	____
____	702	____	____	864	____	____	610	____

Color the coins needed to buy each item.



Find the missing member of each FACT FAMILY.



Date _____

Find the positive square roots.

$\sqrt{16}$ =___ $\sqrt{25}$ =___

$\sqrt{81}$ =___ $\sqrt{1}$ =___

$\sqrt{36}$ =___ $\sqrt{4}$ =___

$\sqrt{64}$ =___ $\sqrt{49}$ =___

Find the roots.

$\sqrt[3]{64}$ =___

$\sqrt[3]{8}$ =___

$\sqrt[3]{125}$ =___

$\sqrt[3]{27}$ =___

Use a calculator to find the following exponential numbers and positive roots.

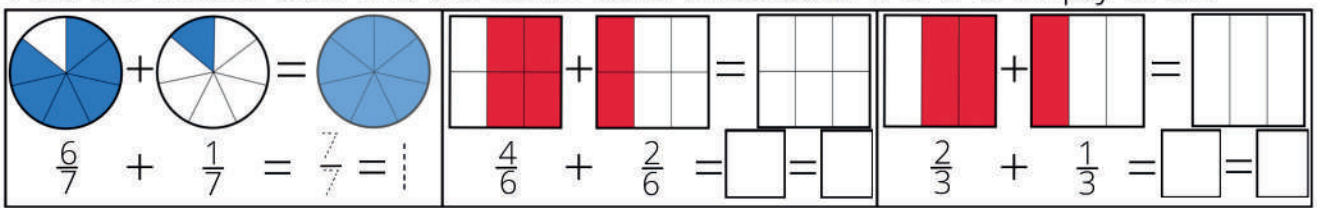
2^5= _____ 5^3= _____ $\sqrt{81}$ =___ $\sqrt[3]{216}$ =___

8^3= _____ 7^3= _____ $\sqrt[4]{16}$ =___ $\sqrt[5]{32}$ =___

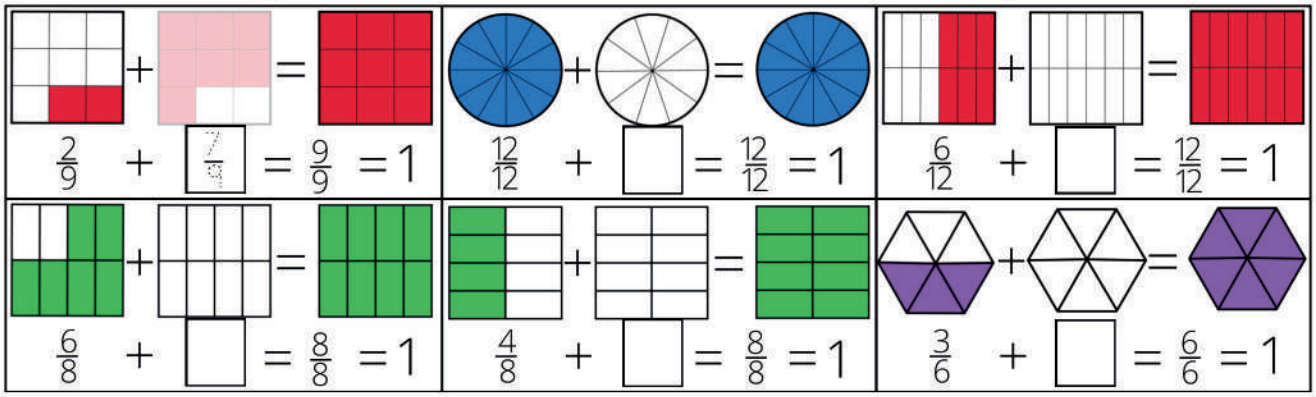
4^4= _____ 3^4= _____ $\sqrt[4]{256}$ =___ $\sqrt[4]{81}$ =___

3^5= _____ 2^8= _____ $\sqrt[5]{243}$ =___ $\sqrt[3]{1}$ =___

Add the fractions to find the SUM. Color the sections of the empty circle.



Find the missing fraction and color the sections of the empty circle.



2^0= ____

2^1= ____

2^2= 2 x 2 = ____

2^3= 2 x 2 x 2 = ____

2^4= 2 x 2 x 2 x 2= ____

2^5= 2 x 2 x 2 x 2 x 2 = ____

3^0= ____

3^1= ____

3^2= 3 x 3 = ____

3^3= 3 x 3 x 3 = ____

3^4= 3 x 3 x 3 x 3= ____

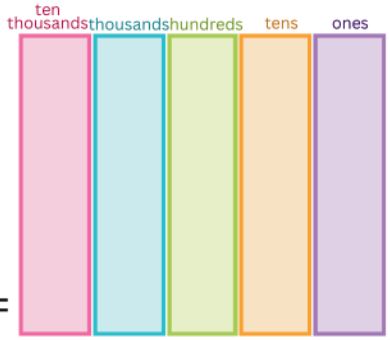
3^5= 3 x 3 x 3 x 3 x 3 = ____

23 x 1 =

23 x 10 =

23 x 100 =

23 x 1000 =

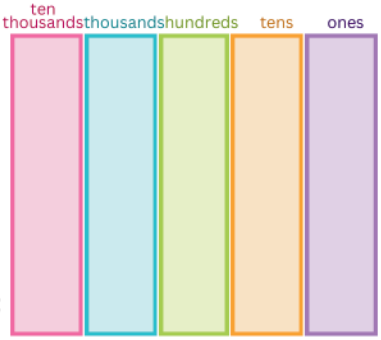


84 x 1 =

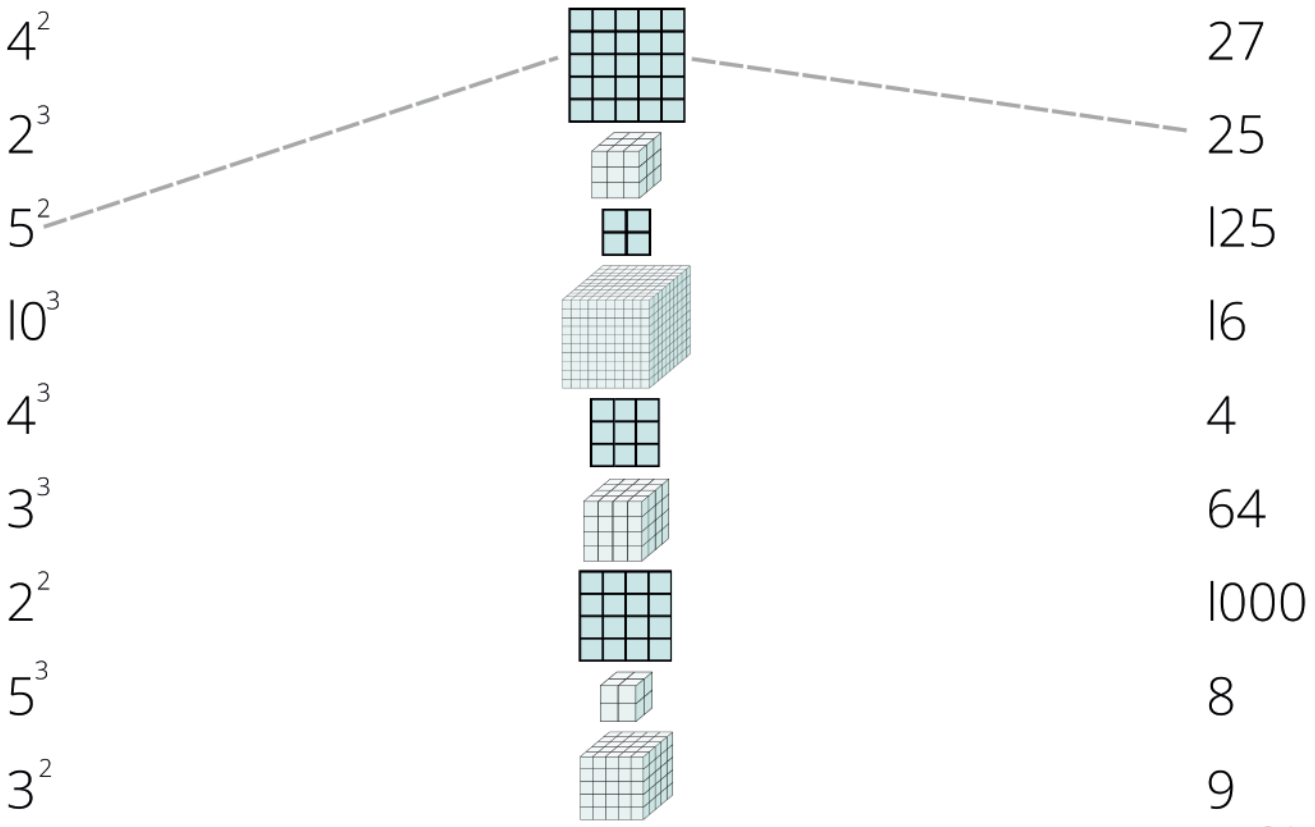
84 x 10 =

84 x 100 =

84 x 1000 =

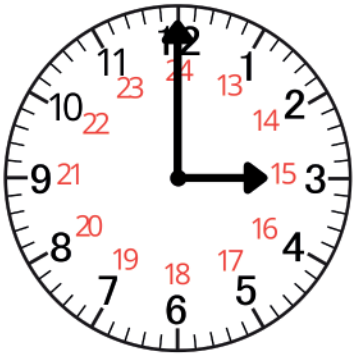


Draw lines to connect each column.



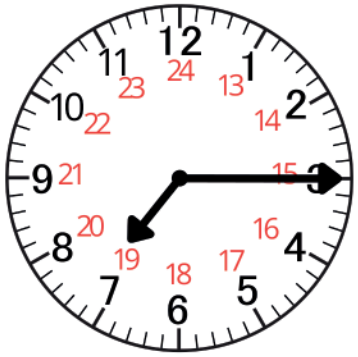
Date _____

Read and write each time in 12-hour and 24-hour time formats.



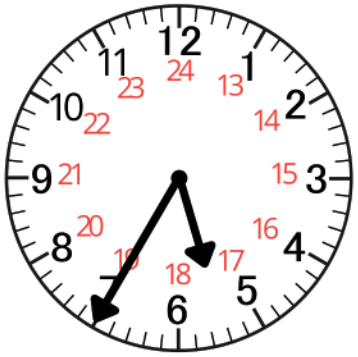
12-hour: 3:00 P.M.

24-hour: 15:00



12-hour: _____ A.M.

24-hour: _____



12-hour: _____ P.M.

24-hour: _____

add 12 HOURS to all PM times 1:00PM or later.

Convert each time from 12-hour format to 24-hour format.

1:25 AM = _____

5:05 PM = _____

3:39 PM = _____

12:13 PM = _____

5:18 AM = _____

11:20 PM = _____

Convert each time from 24-hour format to 12-hour format. Include A.M or P.M.

20:15 = _____

04:04 = _____

19:37 = _____

01:12 = _____

09:55 = _____

13:30 = _____

11:01 = _____

23:01 = _____

15:15 = _____

The girls board the train at 17:45. Their trip will take 4 hours 8 minutes. What time will they arrive (in 24-hour time)? Draw the hands on the clocks.

departure

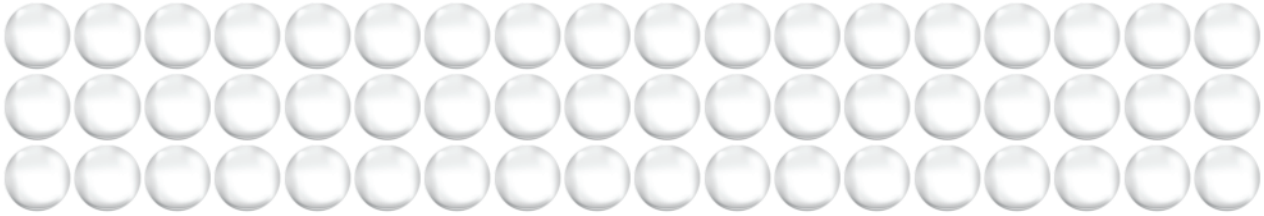
arrival

time	hours	minutes
17:45		

Divide these marbles into 4 groups.

Color $\frac{1}{4}$ of the marbles yellow and $\frac{3}{4}$ of the marbles red.

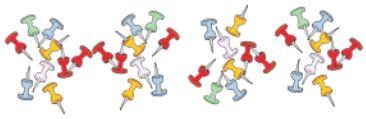
Divide these marbles into 6 groups.



Color $\frac{4}{6}$ orange and $\frac{2}{6}$ blue. What is $\frac{1}{6}$ of 54?

Use circles to group the items, then complete the equations.

 $\frac{20}{4} =$ $20 \div 4 =$ $4\overline{)20}$ What is 1/4 of 20?

 $\frac{36}{4} =$ $36 \div 4 =$ $4\overline{)36}$ What is 1/4 of 36?

 $\frac{28}{4} =$ $28 \div 4 =$ $4\overline{)28}$ What is 1/4 of 28?

Fill in each square to complete each number sentence correctly.

2	x	5	=	10
x		x		x
3	x	1	=	3
=		=		=
6	x	5	=	30

2	x	4	=	
x		x		x
3	x	3	=	
=		=		=
	x		=	

1	x	2	=	
x		x		x
4	x	3	=	
=		=		=
	x		=	

Date _____

Use your calendar to answer the following questions:

1.How many days are there between Valentine's Day and St. Patrick's Day? _____

2. You are going on vacation in ten days. What will be the date? _____

3. Your piano teacher gave you a new song today. She wants you to learn and memorize it for your recital May 15. How many days do you have? _____

Draw lines to match each month to the number of days it has.

October		April
February	30 days	August
July		November
January	28/29 days	March
December		September
June	31 days	May

You started reading at 19:10. Your book took two hours and 15 minutes to finish. What time (24-hour time)did you finish?

begin

finish

time	hours	minutes
19:10		

add/subtract 3 in the ONES place

3 less		3 more
811,	814,	817
____,	226,	____
____,	593,	____

add/subtract 3 in the TENS place

30 less		30 more
183,	153,	123
____,	345,	____
____,	639,	____

add/subtract 3 in the HUNDREDS place

300 less		300 more
98,	398,	698
____,	525,	____
____,	409,	____

Find the sums and differences.

51 + 13	47 + 24	39 + 27	28 + 50	86 + 24
42 - 15	15 + 35	50 - 27	20 - 19	33 - 24
59 + 29	86 - 48	91 - 47	36 + 40	48 - 28

What number does each letter represent?

A + A + A = 15

A + B + C = 18

2 x B = 14

A + C + B + B = ☐

16 - C = ☐

25 - C = ☐

A + 14 = ☐

B + 9 = ☐

A = ☐

B = ☐

C = ☐

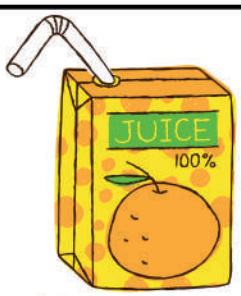
Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct.

5 | 7 — 35 ☐ | ☐ — 15 25 21	2 | ☐ — 12 ☐ | ☐ — 15 6 30	5 | ☐ — 10 ☐ | ☐ — 28 20 14	5 | ☐ — 45 ☐ | ☐ — 24 40 27
2 | ☐ — 10 ☐ | ☐ — 99 18 55	5 | ☐ — 40 ☐ | ☐ — 60 50 48	2 | ☐ — 10 ☐ | ☐ — 36 18 20	5 | ☐ — 30 ☐ | ☐ — 14 10 42
2 | ☐ — 16 ☐ | ☐ — 42 12 56	2 | ☐ — 20 ☐ | ☐ — 28 14 40	5 | ☐ — 55 ☐ | ☐ — 3 5 33	2 | ☐ — 18 ☐ | ☐ — 88 16 99

Date _____

You gave the cashier $2.00 to buy juice that cost $1.33. What is your change? Color coins to count UP from $1.33 to $2.00

200
−133



$2.00 = 200¢
$1.33 = 133¢

You gave the cashier $5.00 to buy a sandwich that was $3.49. What is your change? Color coins to count UP from $3.49 to $5.00

500
−349

$5.00 = 500¢
$3.49 = 349¢

You gave the cashier $5.00 to buy a salad for $2.89. What is your change? Color coins to count UP from $2.89 to $5.00

500
−289

$5.00 = 500¢
$2.89 = 289¢

What comes next?

108, 99, 90, _____, _____, _____, _____, _____, _____, _____

45, 50, 55, _____, _____, _____, _____, _____, _____, _____

16, 24, 32, _____, _____, _____, _____, _____, _____, _____

84, 77, 70, _____, _____, _____, _____, _____, _____, _____, _____

2, 4, 6, _____, _____, _____, _____, _____, _____, _____, _____

Convert these time periods:

1 year = _____ days

1 day = _____ hours

1 hour = _____ minutes

1 minute = _____ seconds

7 days = _____ week

90 seconds = _____ minute ____ seconds

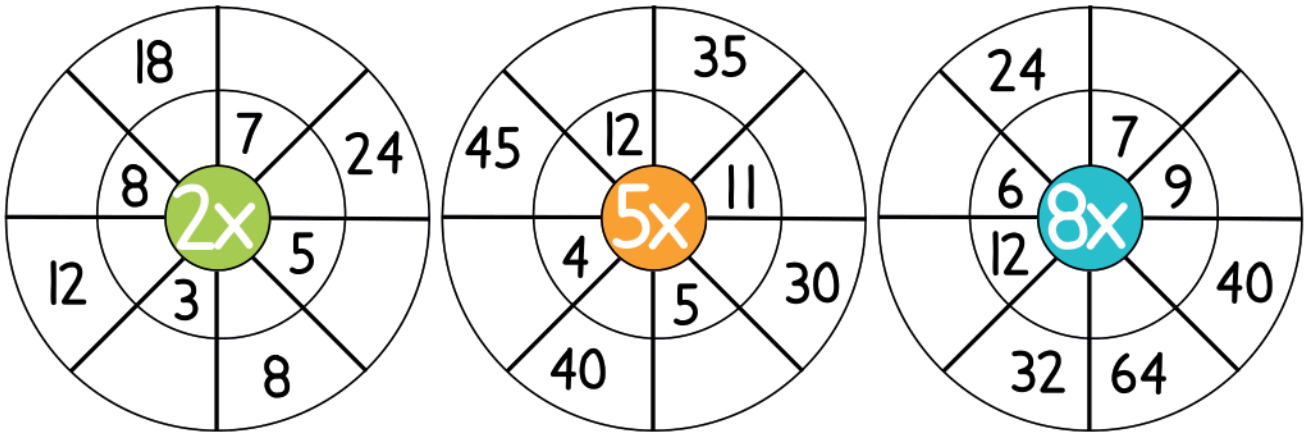
25 hours = _____ day _____ hour

9 days = _____ week _____ days

30 minutes = _____ hour

12 months = _____ year

Complete the blanks in these circles.



Find the missing numbers to complete each equation.

411 + ☐ = 644	☐ + 183 = 599	253 + ☐ = 354	☐ + 131 = 752	562 + ☐ = 568
1 115 + ☐ = 240	11 ☐ + 387 = 600	11 295 + ☐ = 533	11 ☐ + 157 = 325	1 139 + ☐ = 280

Find the value of X in each equation and write it in the box below.

343 + X = 740	X + 186 = 301	367 + X = 533	X + 238 = 627	11 179 + X = 553
X= ☐	X= ☐	X= ☐	X= ☐	X= ☐

Date _____

Fill out this check to pay Toys R Us for a new toy. You decide the amount.

DATE _____

PAY TO THE ORDER OF _____ $ _____

_____ DOLLARS

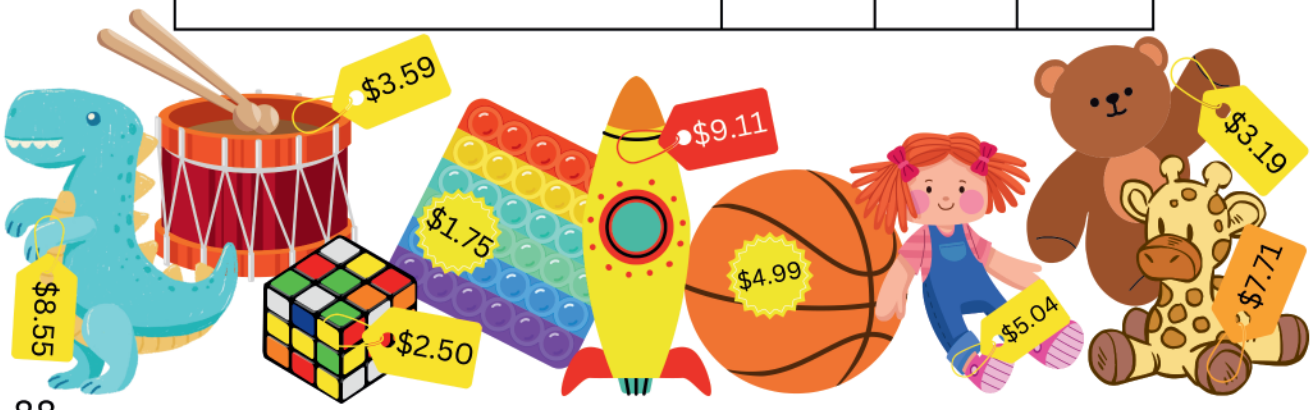
LifeSkillsBank

12347659 : 003341234 _____

You earned $50 and you received $30 for your birthday. Save some then write the rest as a deposit on the first line. Then follow the instructions below at least four times.

1. Choose an item to buy.
2. Round the price of the item to the nearest dollar.
3. Write the rounded price of the item in the expense column.
4. Subtract the rounded amount from the balance and write your new balance.
5. Repeat.

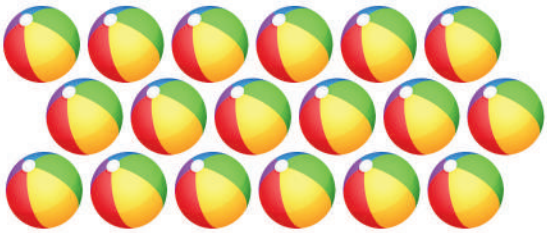
Memo	Deposit	Expense	Balance



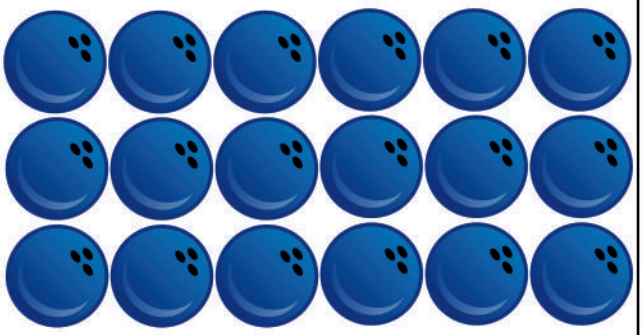
Divide these balls into 4 groups.

What is $\frac{1}{4}$ of 16?

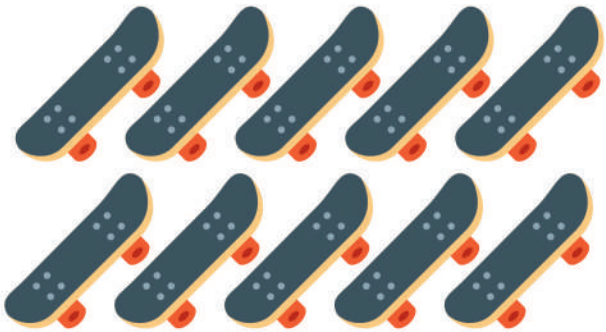
Divide these balls into 3 groups.



What is $\frac{1}{3}$ of 18?



What is $\frac{1}{2}$ of 18?



What is $\frac{1}{5}$ of 10?

Fill in the missing numbers then color the squares with EVEN numbers yellow.

	504	503							

How long is your game?

time	hours	minutes
11:15 AM		
3:30 PM		

_____ minutes

Are there more than 60 minutes? If so, TRADE 60 minutes for 1 hour.

_____ hours and _____ minutes

How long is your flight?

time	hours	minutes
8:10 AM		
1:30 PM		

_____ minutes

Are there more than 60 minutes? If so, TRADE 60 minutes for 1 hour.

_____ hours and _____ minutes

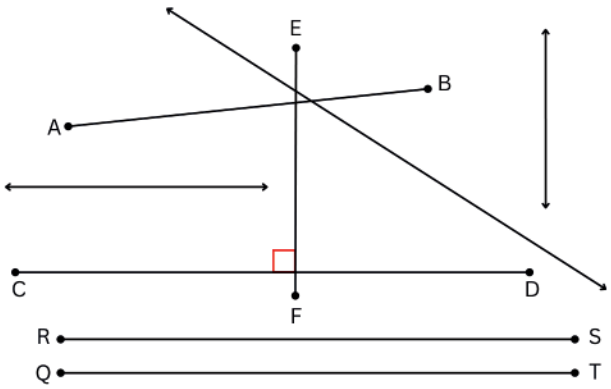
Your field trip starts at 2:10 PM. It will take you 3 hours and 15 minutes to drive there. What time should you leave?

time	hours	minutes
2:10 PM		

departure

arrival

Date _____



1. Trace line segment $\overline{AB}$ orange.
2. Trace the oblique LINE red.
3. Trace the horizontal LINE green.
4. Trace the vertical LINE yellow.
5. Name the two perpendicular line segments:
   _____ and _____
6. Name the two parallel line segments:
   _____ and _____

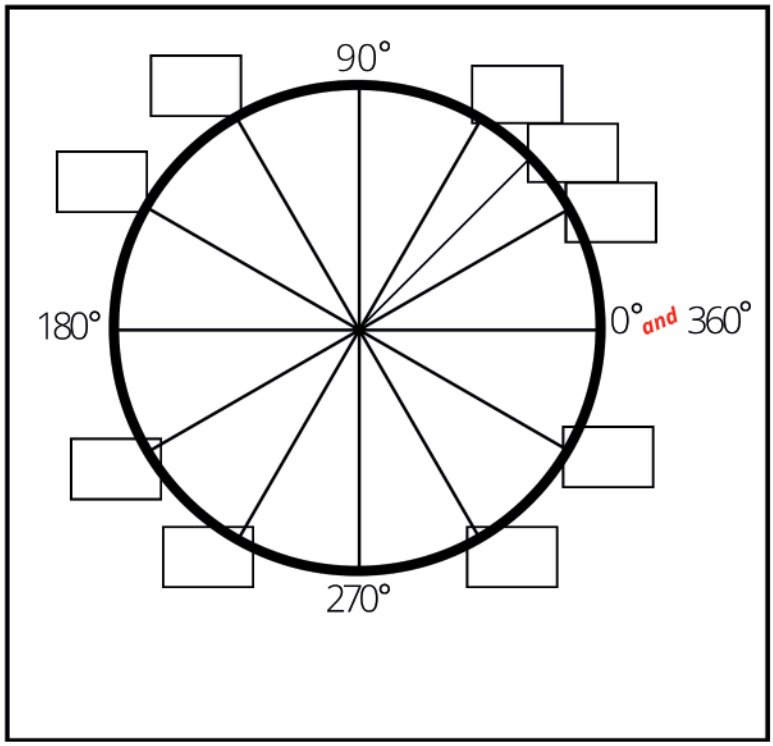
Draw:

Right Angle (include the small square)

Acute Angle

Obtuse Angle

Fill in the boxes around this circle with the correct angle measurements. Use your reference pages if you need to.



Draw a HORIZONTAL line and a VERTICAL line to divide this square into FOURTHS.

Draw 3 HORIZONTAL lines to divide this square into FOURTHS.

Use two OBLIQUE lines to divide this square into FOURTHS.

Draw 3 VERTICAL lines to divide this square into FOURTHS.

Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct.

5	8	40
		12
15	32	

9		72
		35
63	40	

11		66
		99
121	54	

8		64
		72
48	96	

12		36
		96
144	24	

7		84
		28
49	48	

6		54
		48
48	54	

9		18
		88
72	22	

10		20
		30
50	12	

7		56
		66
77	48	

8		48
		36
96	18	

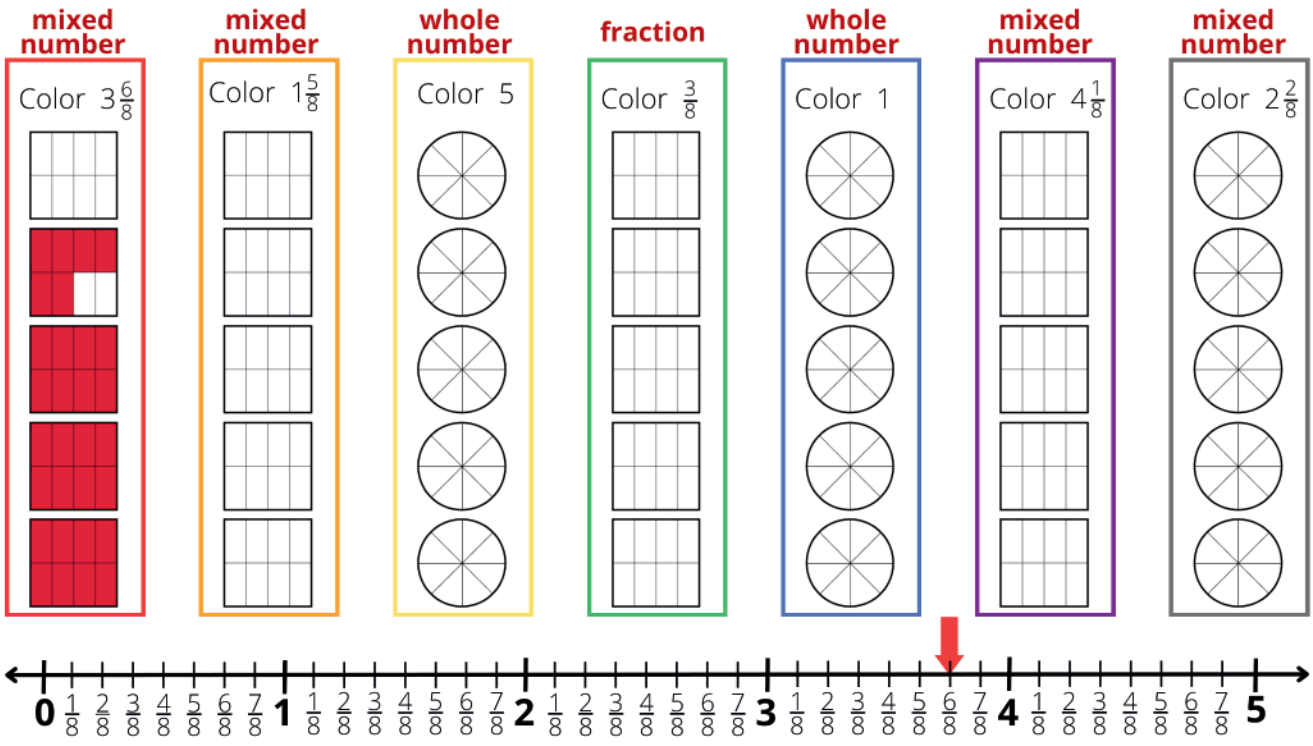
12		132
		35
84	55	

What comes next?

8, 16, 24, _____, _____, _____, _____, _____, _____, _____, _____, _____

7, 14, 21, _____, _____, _____, _____, _____, _____, _____, _____, _____

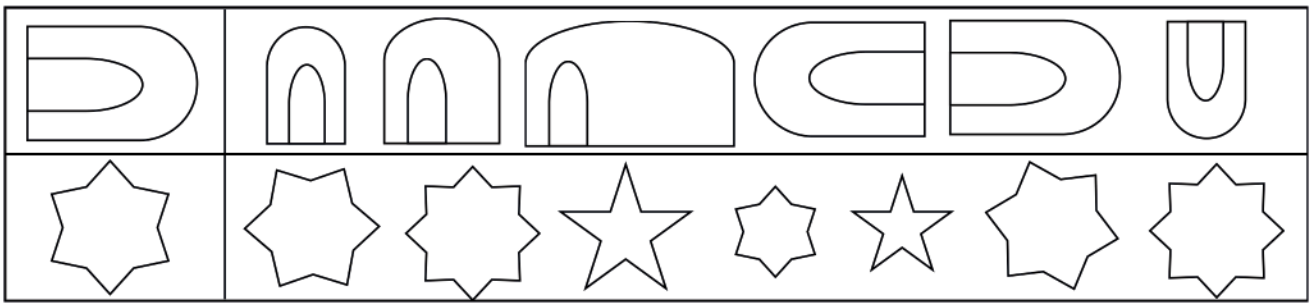
Color the number in each colored rectangle. Then draw an arrow that color pointing to the number on the number line below. Some of these fractions have two names.



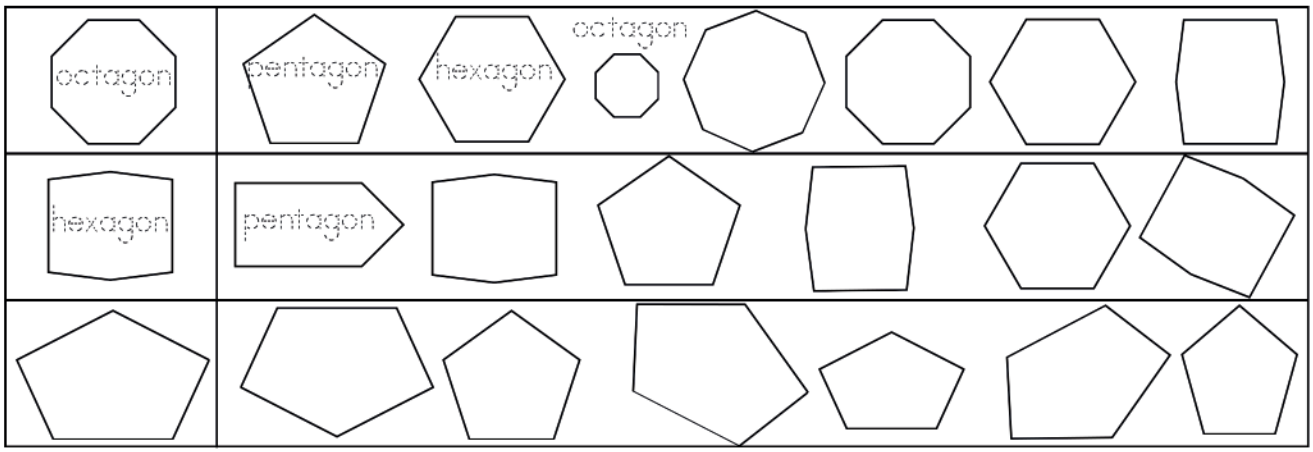
Why does this number line have fractions divided into eighths?

Date _____

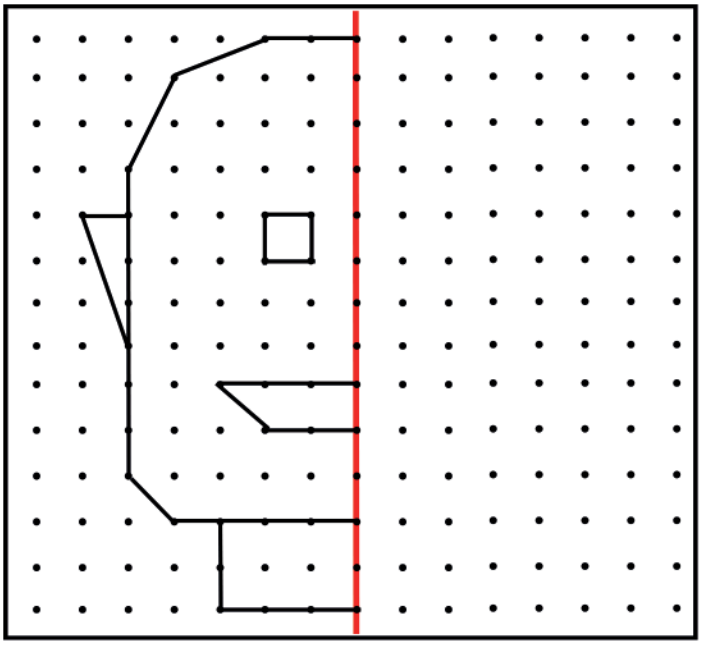
Color the shapes on the right that are congruent to the shape on the left.

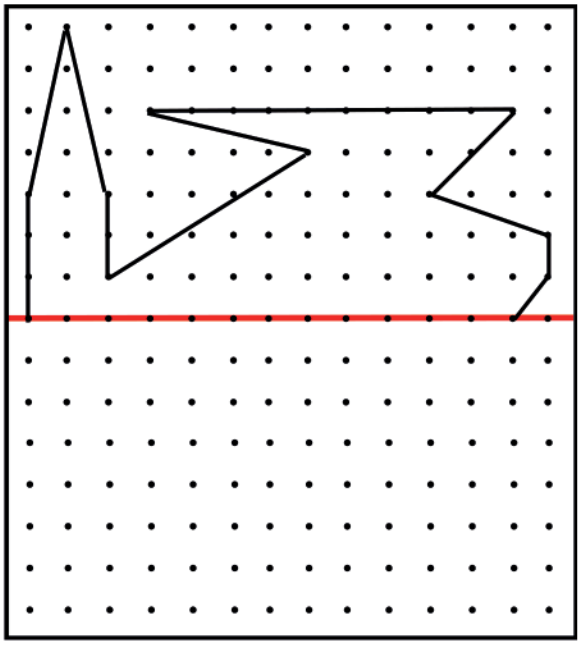


Color the shapes on the right that are congruent to the shape on the left.
Label each polygon with its name.

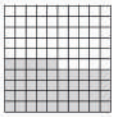


Complete the missing half of each shape across the red line of symmetry.

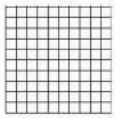




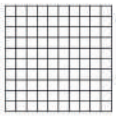
Each block has 100 squares. Fill in the blanks and color squares to illustrate each percentage equation.



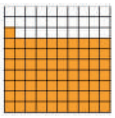
$45\% = \frac{45}{100}$



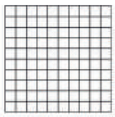
$11\% = \frac{\quad}{100}$



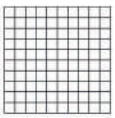
$\frac{\square}{100} = \frac{84}{100}$



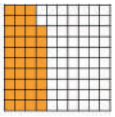
$\frac{\square}{100} = \frac{\quad}{100}$



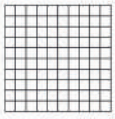
$93\% = \frac{\quad}{100}$



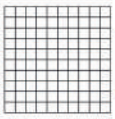
$\frac{\square}{100} = \frac{29}{100}$



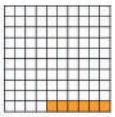
$\frac{\square}{100} = \frac{\quad}{100}$



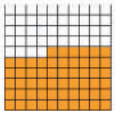
$15\% = \frac{\quad}{100}$



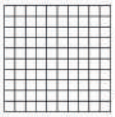
$\frac{\square}{100} = \frac{51}{100}$



$\frac{\square}{100} = \frac{\quad}{100}$

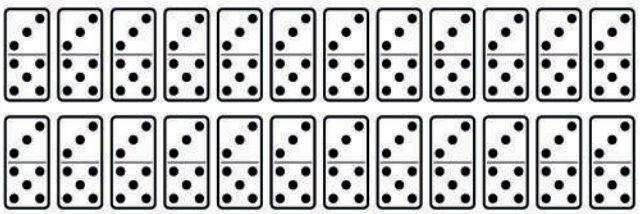


$\frac{\square}{100} = \frac{\quad}{100}$



$\frac{\square}{100} = \frac{33}{100}$

Divide each SET into the number of groups that is the DENOMINATOR of the fraction. For example, if the denominator is 2, divide the set into 2 groups.



What is $\frac{1}{2}$ of 24? ← Divide this set into 2 groups

What is $\frac{1}{3}$ of 24? ← Divide this set into 3 groups

What is $\frac{1}{4}$ of 24?

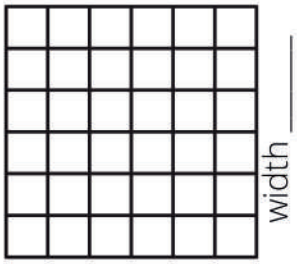
What is $\frac{1}{6}$ of 24?

What comes next?

12, 24, 36, ____, ____, ____, ____, ____, ____, ____, ____, ____

120, 115, 110, ____, ____, ____, ____, ____, ____, ____, ____

Date _____



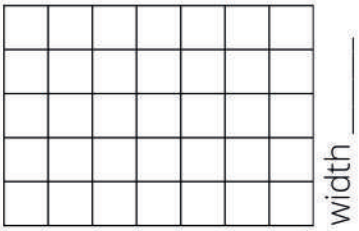
width _____

length _____

perimeter _____ units

area _____ units^2

what? why?



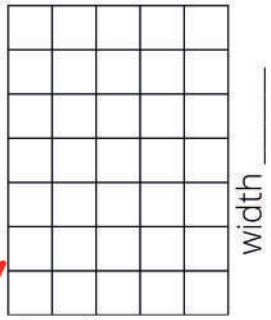
width _____

length _____

is this the Commutative Property of Multiplication?

perimeter _____ units

area _____ units^2

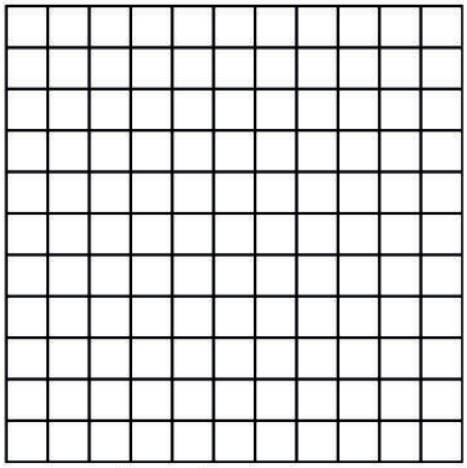


width _____

length _____

perimeter _____ units

area _____ units^2



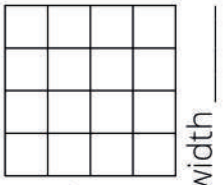
width _____

length _____

_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2



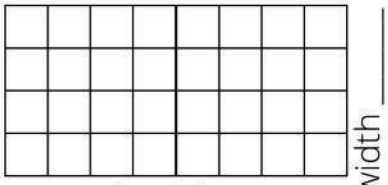
width _____

length _____

_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2



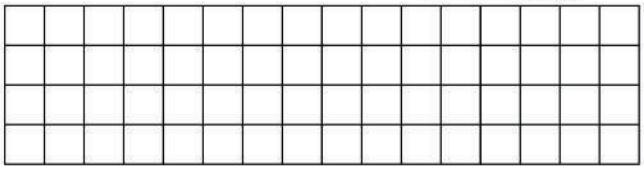
width _____

length _____

_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2



width _____

length _____

_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2

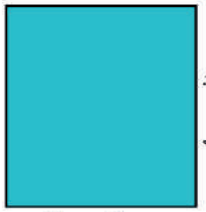
Use a ruler to draw these line segments:

$\overline{AB}$	$\overline{GH}$	$\overline{MN}$	$\overline{ea}$	$\overline{fg}$	$\angle OPQ$
$\overline{CD}$	$\overline{IJ}$	$\overline{DU}$	$\overline{cm}$	$\overline{hi}$	$\angle RST$
$\overline{EF}$	$\overline{KL}$	$\overline{XY}$	$\overline{bd}$		$\angle EVG$

A C O Q f g E G S X I Y K M

b d c m e a

B D U P h i F V H R T J L N



_____ x _____ = _____
length width area

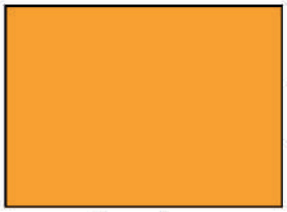
perimeter _____ units

area _____ units^2

_____ x _____ = _____
length width area

perimeter _____ units

area _____ units^2



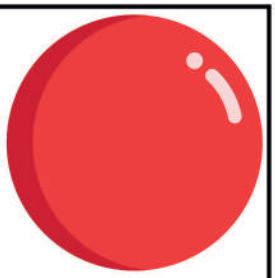
_____ x _____ = _____
length width area

perimeter _____ units

area _____ units^2

You gave the cashier $5.00 to buy a ball that was $3.21. What is your change? Color coins to count UP from $3.21 to $5.00

500
−321



$5.00 = 500¢
$3.21 = 321¢

What number does A represent in each equation?

8 + A = 13 A = ___

5 + A = 12 A = ___

9 - A = 6 A = ___

A + 4 = 4 A = ___

18 - A = 9 A = ___

A + 5 = 16 A = ___

Find the missing numbers to complete each equation.

$$\begin{array}{r} 310 \\ +\square \\ \hline 411 \end{array} \qquad \begin{array}{r} {\scriptstyle 1\,1} \\ \square \\ +513 \\ \hline 700 \end{array} \qquad \begin{array}{r} {\scriptstyle 1} \\ 228 \\ +\square \\ \hline 237 \end{array} \qquad \begin{array}{r} {\scriptstyle 1\,1} \\ \square \\ +187 \\ \hline 621 \end{array} \qquad \begin{array}{r} {\scriptstyle 1} \\ 139 \\ +\square \\ \hline 170 \end{array}$$

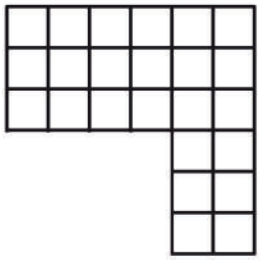
Find the value of X in each equation and write it in the box below.

$$\begin{array}{r} 301 \\ +\ X \\ \hline 502 \end{array} \qquad \begin{array}{r} X \\ +113 \\ \hline 283 \end{array} \qquad \begin{array}{r} 321 \\ +\ X \\ \hline 389 \end{array} \qquad \begin{array}{r} X \\ +103 \\ \hline 227 \end{array} \qquad \begin{array}{r} {\scriptstyle 1} \\ 114 \\ +\ X \\ \hline 350 \end{array}$$

X=□ X=□ X=□ X=□ X=□

Date _____

Can you divide this shape into two separate rectangles? Outline and color them.



perimeter _____ units

area _____ units^2

Draw the first rectangle here.

length _____ units

width _____ units

perimeter _____ units

area _____ units^2

add these

add these

Draw the second rectangle here.

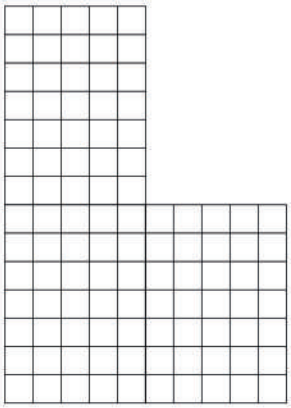
length _____ units

width _____ units

perimeter _____ units

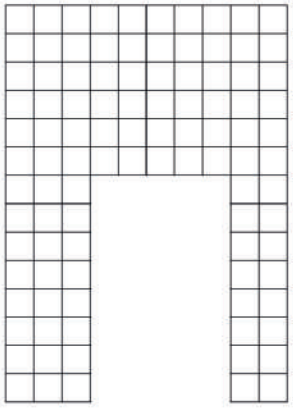
area _____ units^2

Could you have divided the shape into DIFFERENT rectangles? Would you have gotten the same answer?



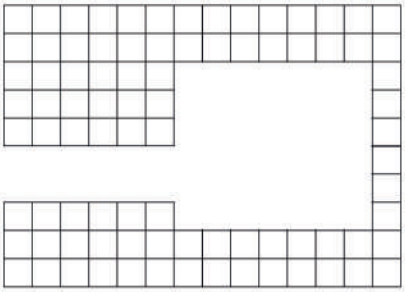
perimeter _____ units

area _____ units^2



perimeter _____ units

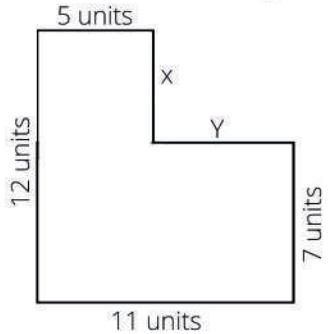
area _____ units^2



perimeter _____ units

area _____ units^2

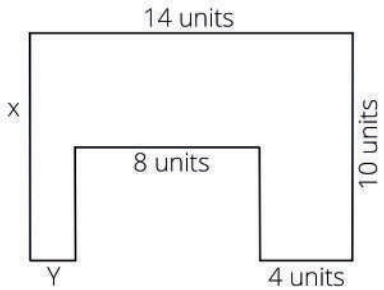
Find the missing lengths we call X and Y.



X = _____ Y = _____

perimeter _____ units

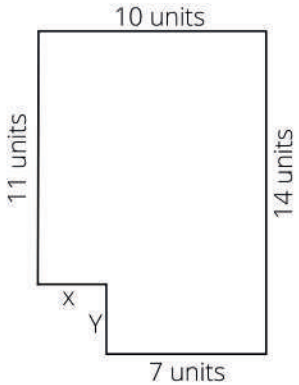
area _____ units^2



X = _____ Y = _____

perimeter _____ units

area _____ units^2



X = _____ Y = _____

perimeter _____ units

area _____ units^2

Word Form	Expanded	Standard
Two hundred twelve	200+10+2	212
	500+1	
		680
Two hundred thirty-two		
One hundred ninety		
	300+50+6	
Five hundred twenty		
Six hundred		
		187
	400+40+9	

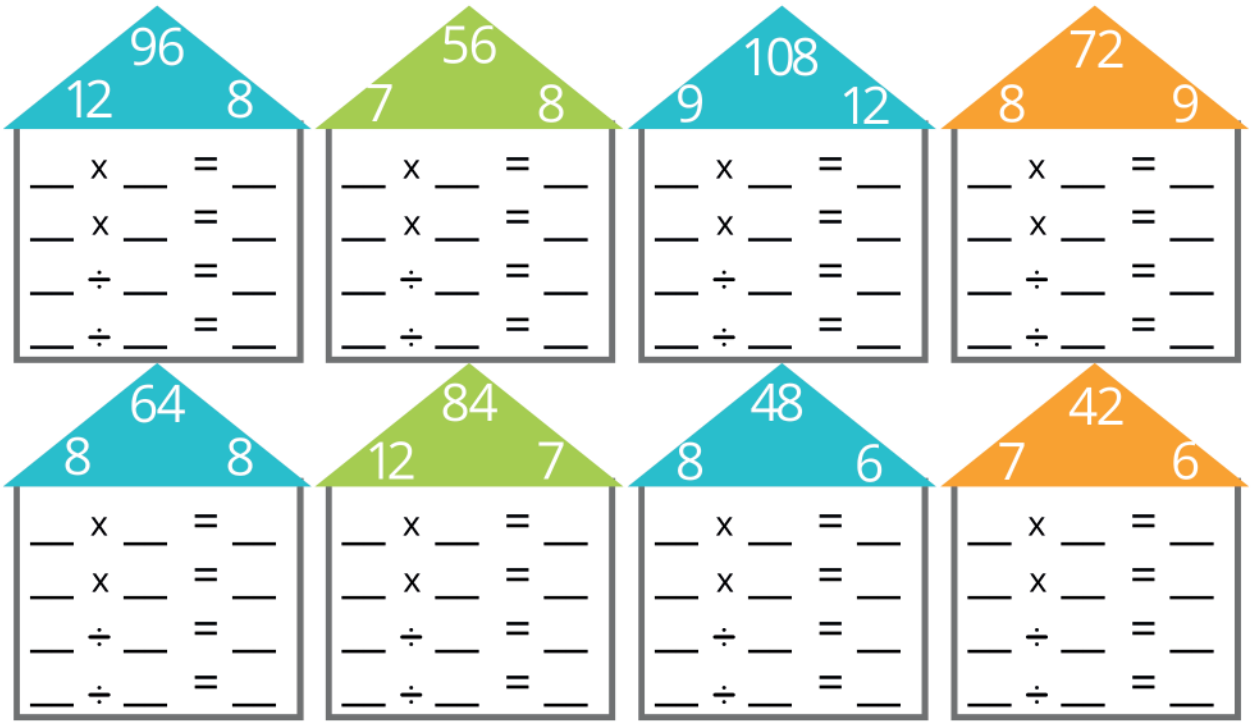
Fill in the missing spots.
Which number is the largest?

Which number is the smallest?

Which numbers have all even digits?

Which number has zero tens and zero ones?

Complete these Fact Family houses.



Find the squares.

2^2= _____ 6^2= _____

3^2= _____ 7^2= _____

4^2= _____ 8^2= _____

5^2= _____ 9^2= _____

Find the positive square roots.

$\sqrt{16}$ =____ $\sqrt{25}$ =____

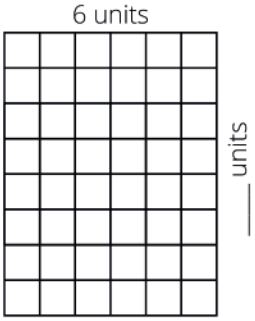
$\sqrt{81}$ =____ $\sqrt{1}$ =____

$\sqrt{36}$ =____ $\sqrt{4}$ =____

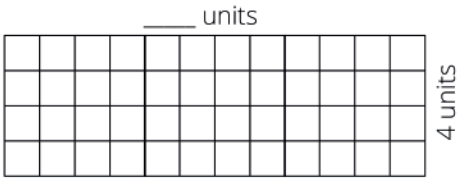
$\sqrt{64}$ =____ $\sqrt{49}$ =____

Date _____

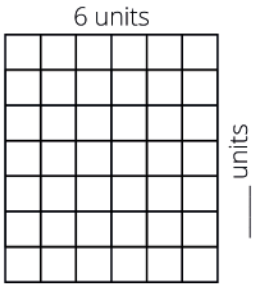
Find the missing dimensions.



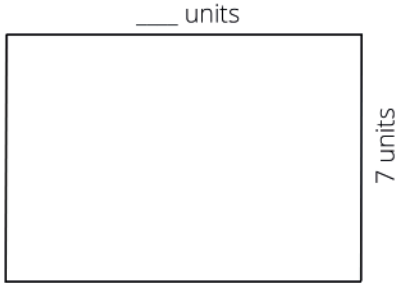
length = _____ units
width = _____ units
perimeter = _____ units
area = 48 units^2



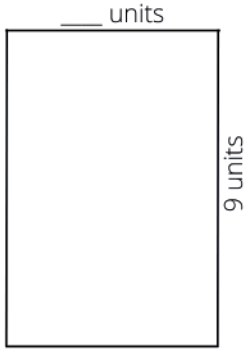
length = _____ units
width = _____ units
perimeter = _____ units
area = 48 units^2



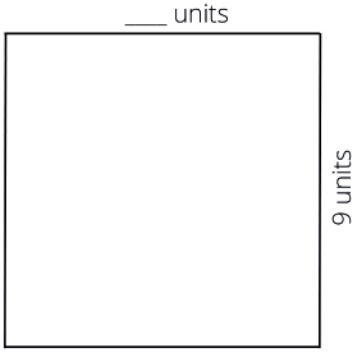
length = _____ units
width = _____ units
perimeter = _____ units
area = 42 units^2



length = _____ units
width = _____ units
perimeter = _____ units
area = 70 units^2



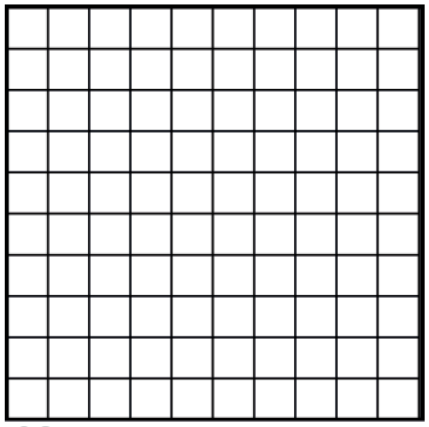
length = _____ units
width = _____ units
perimeter = _____ units
area = 54 units^2



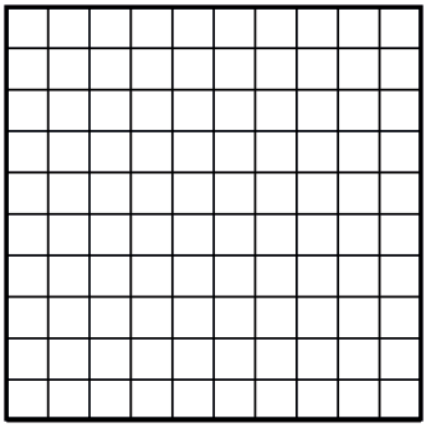
length = _____ units
width = _____ units
perimeter = _____ units
area = 81 units^2

Draw rectangles with the following areas:

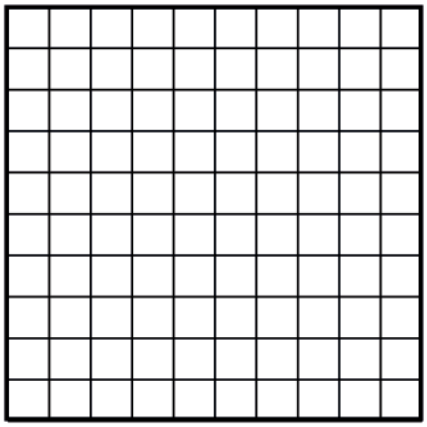
24 units^2



36 units^2



21 units^2



Use mental math to find the sum of each problem.

Problem	Decompose	Rearrange	Sum
43 + 25	(40 + 3)+(20 + 5)	(40 + 20)+(3 + 5)	68
36 + 13	(30 + 6)+(10 + 3)	(30 + 10)+(6 + 3)	49
24 + 34			
45 + 42			
51 + 28			

Add mentally.

55 + 23 =

41 + 21 =

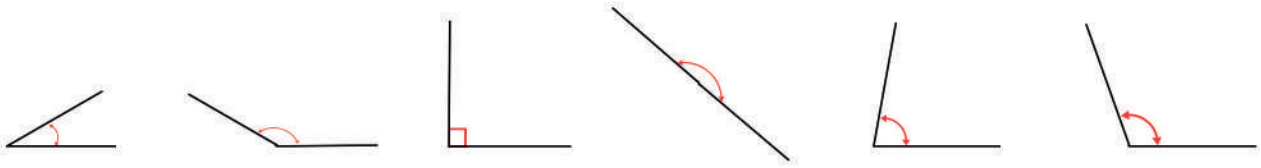
16 + 62 =

21 + 28 =

53 + 45 =

32 + 54 =

Draw lines to match each angle to the most correct measure.



90° 80° 30° 110° 180° 150°

How much money is this?

$6.26
dollars cents

$___.___
dollars cents

$___.___
dollars cents

$___.___
dollars cents

$___.___
dollars cents

Round each amount above to the nearest dollar.

$6
dollars

$_____
dollars

$_____
dollars

$_____
dollars

$_____
dollars

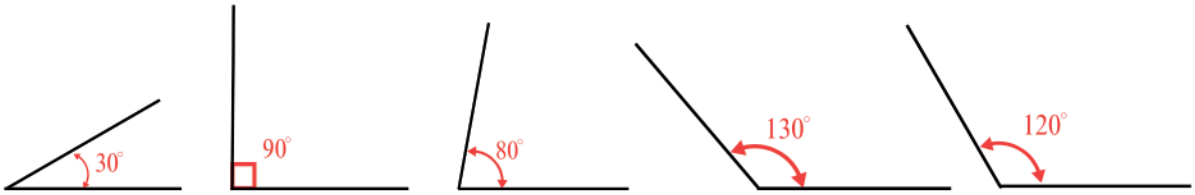
What comes next?

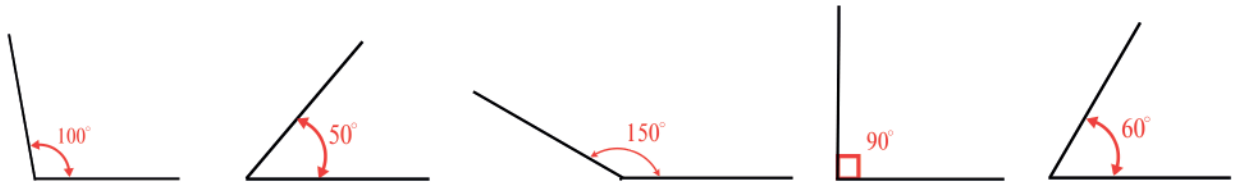
_____, _____, _____, 48, 60, 72, _____, _____, _____, _____, _____, _____

_____, _____, _____, _____, _____, _____, _____, _____, _____, 30, 20, 10

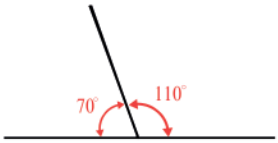
Date _____

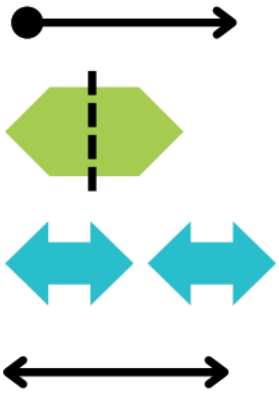
Draw lines to match each angle from the top row with its SUPPLEMENTAL angle on the bottom row. The two angles should add up to 180 degrees.





Draw lines to match the terms to the correct picture, then write each term.





congruent

symmetry

supplementary angles

line

ray

Why can't you measure the length of a line? _____

Draw lines to match terms.

indeterminate	$1\frac{1}{2}$
mixed number	$\frac{1}{0}$
0	$\frac{1}{1}$
undefined	$\frac{0}{0}$
whole number	$\frac{0}{1}$
1	2

Use your FRACTION CIRCLES to compare these fractions by drawing the correct comparison symbol (<, >, =) between them.

$\frac{1}{4} > \frac{1}{5}$ $\quad \frac{1}{2} \quad \frac{4}{8}$ $\quad \frac{3}{6} \quad \frac{5}{10}$ $\quad \frac{1}{3} \quad \frac{2}{3}$

$\frac{3}{5} \quad \frac{4}{5}$ $\quad \frac{6}{12} \quad \frac{2}{4}$ $\quad \frac{3}{4} \quad \frac{6}{8}$ $\quad \frac{4}{6} \quad \frac{4}{5}$

Quadrilaterals (shapes with 4 sides) are special! Draw lines to match columns.

rectangle		Has two pairs of parallel sides, right angles and congruent sides. Also a rectangle and a parallelogram.
square		Has two pairs parallel sides, and four right angles. Also a parallelogram.
parallelogram		A parallelogram with four congruent sides, but it does not have to have 4 right angles.
rhombus		Has 2 pairs of parallel sides, opposite each other.
trapezoid		Has one pair of parallel sides.

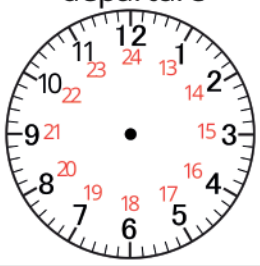
Date _____

Use your place value chart to fill in the blanks in this table.

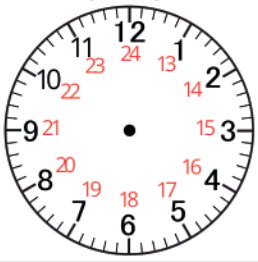
Word Form	Expanded Form	Standard Form
Four thousand, one hundred fifty-seven	4,000+100+50+7	4,157
		21,103
	70,000 + 7,000 + 40 + 2	
Eight thousand nineteen		
		35,900
	40,000 + 100 + 50 + 7	
		411,000
One million, eighty thousand five	1,000,000 + 80,000 + 5	
Twenty-five million, twenty-five		25,000,025
	7,000,000 + 70 + 7	7,000,077

Your flight leaves at 11:15. The flight will take 6 hours 30 minutes. What time will you arrive (in 24-hour time)? Draw the hands on the clocks.

departure



arrival



time	hours	minutes
11:15		

Convert each time from 12-hour format to 24-hour format.

12:15 PM = _____

7:36 AM = _____

9:01 PM = _____

add 12 HOURS to all PM times 1:00PM or later.

1:07 AM = _____

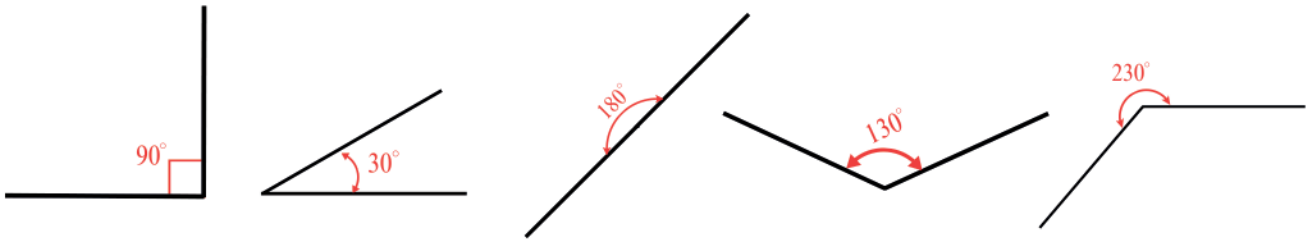
10:28 PM = _____

4:20 PM = _____

Convert each time from 24-hour format to 12-hour format. Include A.M or P.M.

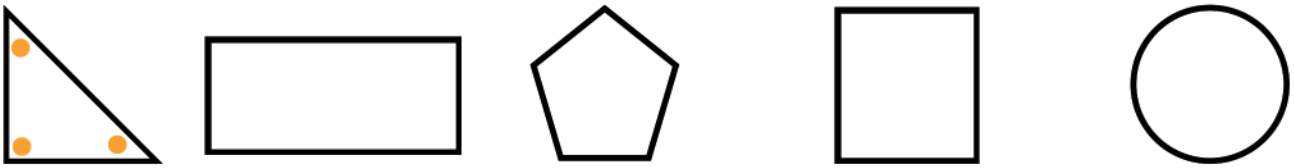
02:22 = _____	11:02 = _____	14:49 = _____
07:56 = _____	19:23 = _____	20:09 = _____
23:59 = _____	17:30 = _____	03:17 = _____
10:00 = _____	13:31 = _____	16:50 = _____

Write straight, right, acute, reflex or obtuse below each angle.



_____ _____ _____ _____ _____

Draw a dot inside each angle. Count the numbers of angles in each shape.



3 angles ____ angles ____ angles ____ angles ____ angles

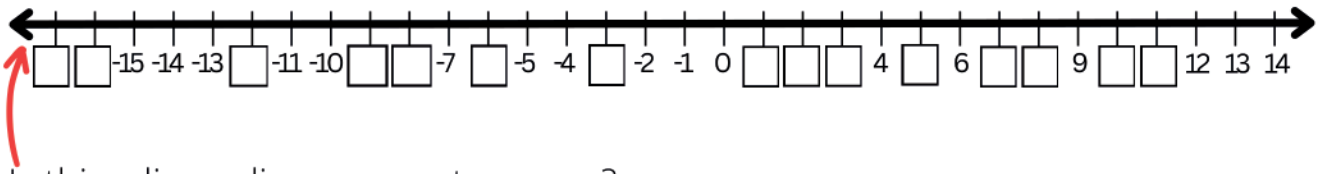
What comes next? hint: think exponents

1, 4, 9, 16, _____, _____, _____, _____, _____, _____, _____, _____

_____, _____, _____, _____, _____, _____, _____, _____, _____, 24, 16, 8

Date _____

Fill in the missing numbers to complete the number line.



Is this a line, a line segment or a ray? _____

How do you know? _____

Draw an infinity sign to the right of the line and a negative infinity sign to the left.

What do the arrows on either end of a LINE mean? _____

Draw:

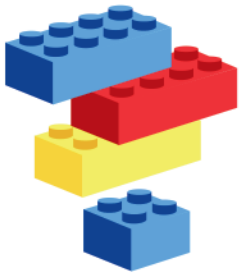
Ray	Acute Angle	Reflex Angle	Line Segment
Obtuse Angle	Straight Angle	Line	Right Angle

Write each number, then name them out loud to a parent.

1. 10,000 + 6,000 + 700 + 50 + 3 = 16,753
2. 70,000 + 7 = 70,007
3. 40,000 + 100 + 50 + 7 = _____
4. 10,000 + 3,000 + 700 + 20 = _____
5. 9,000,000 + 4,000 + 10 + 1 = _____
6. 1,000,000 + 700,000 + 50,000 + 2,000 + 90 = _____
6. 4,000,000 + 300,000 + 2,000 + 900 + 1 = _____

You gave the cashier $10.00 to buy blocks that cost $9.45. What is your change? Color coins to count UP from $9.45 to $10.00

1000
−945



$10.00 = 1000¢
$9.45 = 945¢

Convert these time periods:

1 year = _____ days

1 day = _____ hours

1 hour = _____ minutes

1 minute = _____ seconds

7 days = _____ week

30 hours = _____ day ____ hours

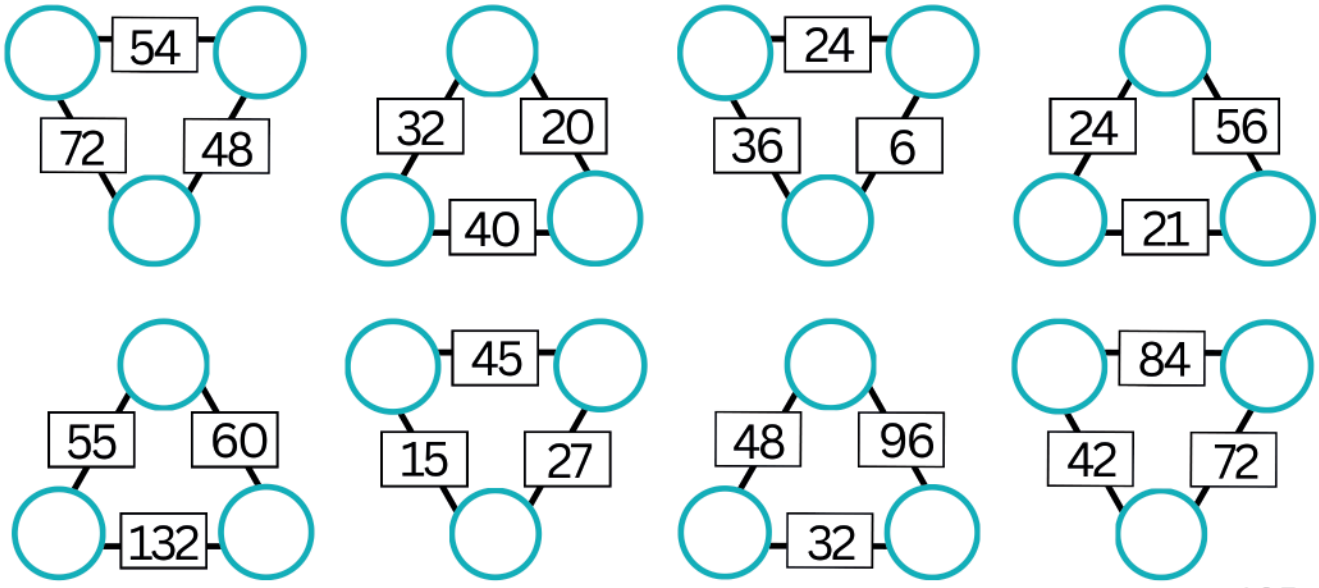
14 days = _____ weeks

120 minutes = _____ hours

360 seconds = _____ minutes

6 months = _____ year

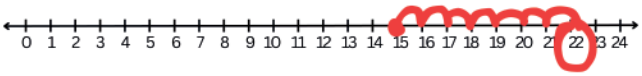
The numbers in the rectangles are the PRODUCTS of the factors in the circles, at the VERTICES of the triangle. Find the missing factors.



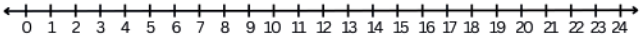
Date _____

Use the number lines to solve each problem.

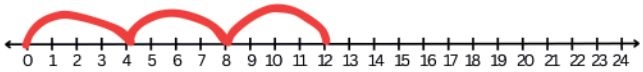
15 + 7 = 22



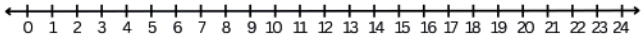
12 - 8 = ____



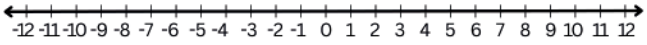
4 x 3 = 12



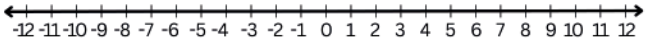
3 x 7 = ____



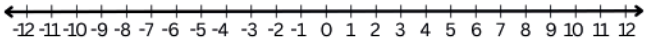
10 - 11 = ____



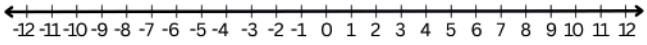
6 - 9 = ____



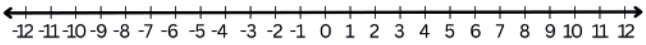
12 - 15 = ____



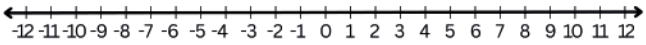
4 - 8 = ____



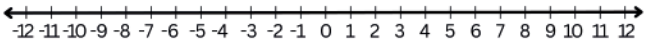
3 - 8 = ____



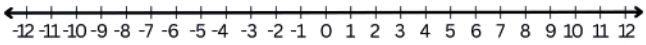
3 - 10 = ____



5 - 9 = ____



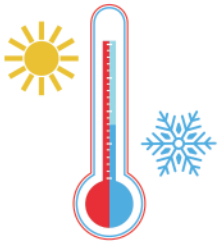
11 - 16 = ____



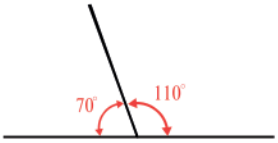
Do you notice any patterns in the subtraction problems above? _____

_____

Use the number line from your lesson today to solve these story problems.

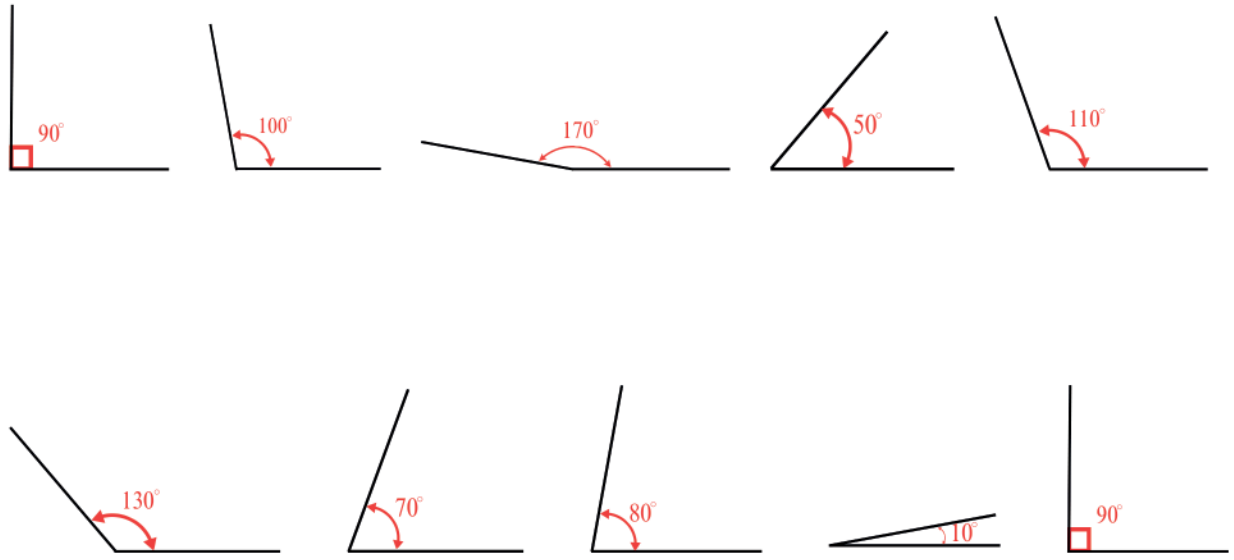
You have $20.00. You want to buy a $35 game. How much money do you need to earn? 	At noon the temperature was 25 degrees. Overnight, the temperature dropped 37 degrees. What was the lowest temperature? 

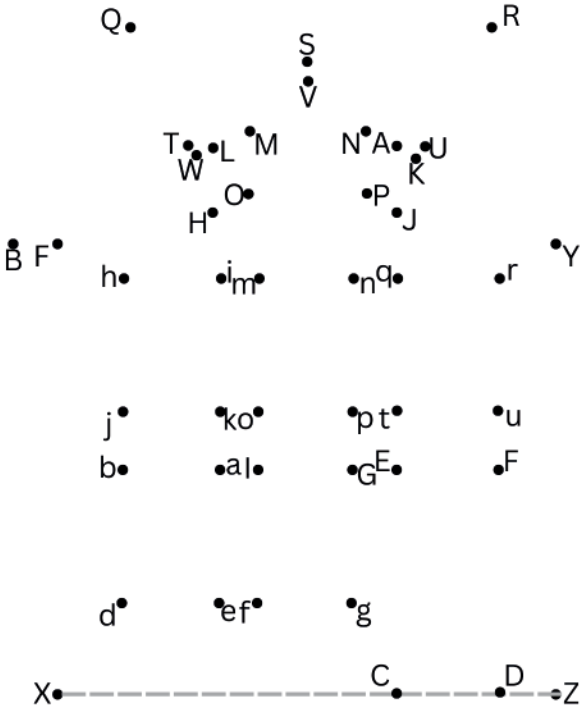
When two angles add to 180°, we say they are SUPPLEMENTARY. Supplement comes from Latin supplere, to complete or "supply" what is needed.



supplementary angles

Draw lines to match each angle from the top row with its SUPPLEMENTAL angle on the bottom row. The two angles should add up to 180 degrees.





Use a ruler to draw the following:

1. $\overline{XZ}$
2. $\overline{YZ}$
3. $\overline{FX}$
4. $\overline{QR}$
5. $\overline{QB}$
6. $\overline{RA}$
7. $\overline{BF}$
8. $\overline{YA}$
9. $\overline{ST}$
10. $\overline{SU}$
11. $\overline{hi}$
12. $\overline{VW}$
13. $\overline{VK}$
14. $\overline{AJ}$
15. $\overline{NP}$
16. $\overline{MO}$
17. $\overline{MN}$
18. $\overline{OP}$
19. $\overline{HJ}$
20. $\overline{LH}$
21. $\overline{TW}$
22. $\overline{jk}$
23. $\overline{UK}$
24. $\overline{ru}$
25. $\overline{qt}$
26. $\overline{qr}$
27. $\overline{tu}$
28. $\overline{EF}$
29. $\overline{EC}$
30. $\overline{FD}$
31. $\overline{mn}$
32. $\overline{op}$
33. $\overline{ba}$
34. $\overline{mo}$
35. $\overline{np}$
36. $\overline{IG}$
37. $\overline{fg}$
38. $\overline{lf}$
39. $\overline{Gg}$
40. $\overline{hj}$
41. $\overline{ik}$
42. $\overline{bd}$
44. $\overline{ae}$
45. $\overline{de}$

Date _____

Use your newest number line to find the sum/difference of each problem.

5 - 12 = ____

7 + -9 = ____

8 - -3 = ____

When two symbols are together in a number sentence:

Two positives make a positive. ++ = +

A positive and a negative make a negative. +- = -

-+ = -

Two negatives make a positive. -- = +

-3 - 12 = ____

1 + -4 = ____

1 - -4 = ____

-1 - -4 = ____

-5 - 4 = ____

8 - -8 = ____

-4 - -11 = ____

1 - 10 = ____

9 - 14 = ____

15 - 18 = ____

6 + 3 = ____

6 - -3 = ____

Draw lines to match each quadrilateral to it's most specific name.

square rhombus trapezoid rectangle parallelogram

Fill in the missing factors or products to complete each number sentence.

5 x ☐ = 10

☐ x 3 = 15

2 x ☐ = 24

3 x 4 = ☐

☐ x 5 = 30

6 x ☐ = 48

9 x ☐ = 72

8 x 7 = ☐

4 x ☐ = 32

Find the value of the letter in each number sentence.

5 x M = 20 M = ____

A x 3 = 30 A = ____

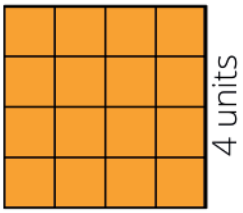
5 x T = 40 T = ____

B x 6 = 36 B = ____

Y x 7 = 49 Y = ____

7 x S = 42 S = ____

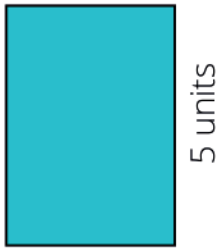
Find the perimeter and the area of each shape.



_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

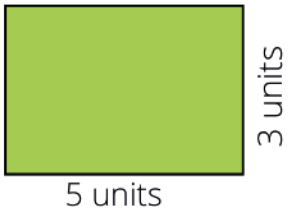
area _____ units^2



_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2



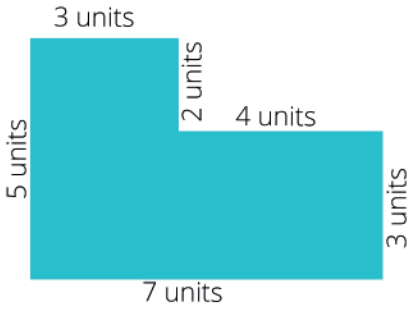
_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2

See what I did there? Commutative property of multiplication

Find the missing dimensions, then divide each shape into two or three rectangles. Find the perimeter and the area of each small rectangle, then add up those areas to find the area of the WHOLE shape. All of the angles are RIGHT ANGLES.

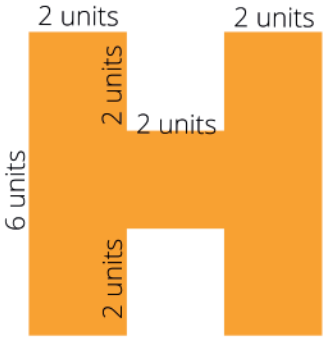


_____ (length) x _____ (width) = _____ (area)

_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2



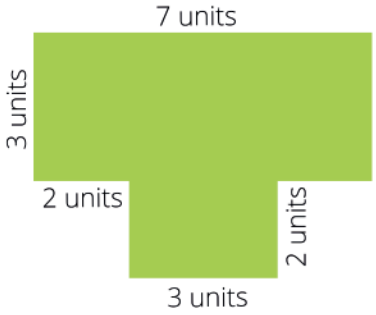
_____ (length) x _____ (width) = _____ (area)

_____ (length) x _____ (width) = _____ (area)

_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2



_____ (length) x _____ (width) = _____ (area)

_____ (length) x _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2

What comes before and after these numbers? Finish the patterns.

_____, _____, _____, _____, _____, _____, _____, _____, 32, 24, 16, _____

144, 121, 100, _____, _____, _____, _____, _____, _____, _____, _____, _____

_____, _____, 21, 28, 35, _____, _____, _____, _____, _____, _____, _____

_____, _____, _____, _____, 30, 36, 42_____, _____, _____, _____, _____

Date _____

What comes next? Ready, set, go!

17, 18, 15, 16, 13, 14, ____, ____, ____, ____

describe the rule:

1, 2, 3, 5, 8, 13, ____, ____, ____, ____, ____

describe the rule:

1, 2, 4, 7, 11, 16, ____, ____, ____, ____, ____

describe the rule:

Create your own pattern:

____, ____, ____, ____, ____, ____, ____, ____, ____

describe the rule:

Fill in the missing factors or products to complete each number sentence.

5 x ☐ = 20

3 x ☐ = 6

2 x ☐ = 10

3 x ☐ = 21

8 x ☐ = 32

7 x ☐ = 56

6 x ☐ = 48

Find the value of the VARIABLE in each number sentence.

5A = 20 A = ____

3B = 6 B = ____

2C = 10 C = ____

3X = 21 X = ____

8Y = 32 Y = ____

7Z = 56 Z = ____

6T = 48 T = ____

Color the COEFFICIENTS red and the VARIABLES green in these number sentences.

See? No multiplication symbol between the variable and the coefficient!

FUNCTION MACHINE

Send each number from the IN column through the function machine. Figure out the rule for each function and complete the OUT column of the function table.

rule: 2x

IN	OUT
1	2
2	4
3	6
4	8
5	10
6	12

rule:

IN	OUT
1	4
2	5
3	6
4	
5	
6	

rule:

IN	OUT
1	0
2	0
3	0
4	
5	
6	

rule:

IN	OUT
1	3
2	6
3	9
4	
5	
6	

rule:

IN	OUT
1	0
2	1
3	2
4	
5	
6	

rule:

IN	OUT
1	1/2
2	1
3	3/2
4	
5	
6	
7	
8	
9	
10	

rule:

IN	OUT
1	1
2	4
3	9
4	
5	
6	
7	
8	
9	
10	

rule:

IN	OUT
1	-4
2	-3
3	-2
4	
5	
6	
7	
8	
9	
10	

rule:

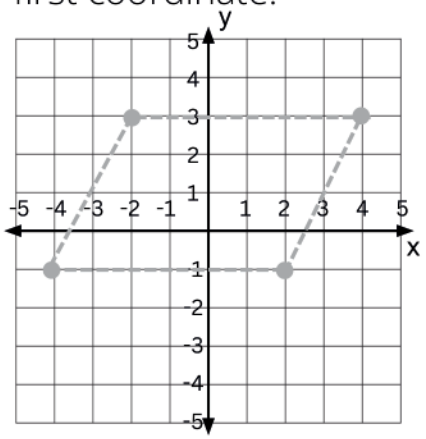
IN	OUT
1	8
2	16
3	24
4	
5	
6	
7	
8	
9	
10	

create your own rule:

IN	OUT

Date _____

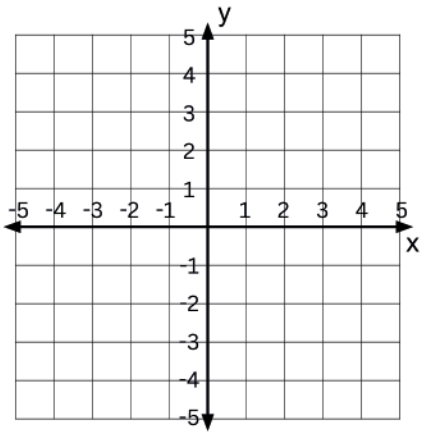
Let's draw quadrilaterals. Graph the points listed below each coordinate plane, then connect the dots in the order they are given, then return to the first coordinate.



1.(-4, -1) 3.(4, 3)
2.(2, -1) 4.(-2, 3)

Shape name:

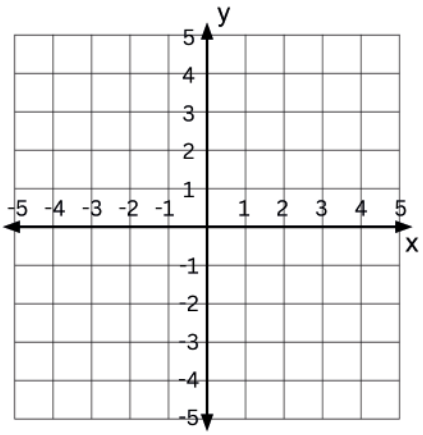
_____



1.(4, -2) 3.(-4, 2)
2.(4, 2) 4.(-4, -2)

Shape name:

_____



1.(-4, -3) 3.(2, 2)
2.(4, -3) 4.(-2, 2)

Shape name:

_____

Coordinate Plane

Draw and label:

- x-axis
- y-axis
- origin
- label the quadrants 1, 2, 3, 4

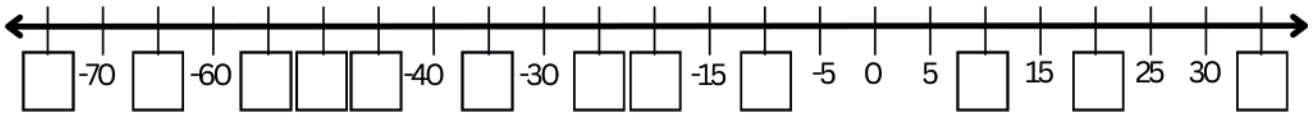
Draw a HEXAGON. Label each angle A, B, C, D, E and F. Write the ordered pair for each angle below:

A _____ D _____

B _____ E _____

C _____ F _____

Fill in the boxes to complete this number line.



Divide the marbles into FOUR equal groups. Color each group a different color.

What is 1/4 of 24?

What is 3/4 of 24?

What is 2/4 of 24?

What is 4/4 of 24

Which fraction is HALF of the marbles?

Divide the marbles into SIX equal groups. Color each group a different color.

What is 1/6 of 24?

What is 4/6 of 24?

What is 2/6 of 24?

What is 5/6 of 24

What is 3/6 of 24?

What is 6/6 of 24?

Which fraction is HALF of the marbles?

Divide the marbles into EIGHT equal groups. Color each group a different color.

What is 1/8 of 24?

What is 5/8 of 24?

What is 2/8 of 24?

What is 6/8 of 24?

What is 3/8 of 24?

What is 7/8 of 24?

What is 4/8 of 24?

What is 8/8 of 24?

Divide the marbles into TWELVE equal groups. Color each group a different color.

What is 1/12 of 24?

What is 7/12 of 24?

What is 2/12 of 24?

What is 8/12 of 24?

What is 3/12 of 24?

What is 9/12 of 24?

What is 4/12 of 24?

What is 10/12 of 24?

What is 5/12 of 24?

What is 11/12 of 24?

What is 6/12 of 24?

What is 12/12 of 24?

Draw least 3 more polygons to complete this pattern. You may draw REGULAR or IRREGULAR polygons. Label each polygon with its name.

rule: each polygon has one side more

Date _____

Each square on the map is TWO SQUARE FEET. Most animals take up more than one square, so please approximate the coordinates as best you can.

l. Name the animal at each coordinate on the opposite page:

(-10, 14) bear _____ (7, -6) _____

(-9, 21) _____ (9, 14) _____

(-3, 17) _____ (-5, 5) _____

(-14, 10) _____ (-15, -4) _____

(-17, 4) _____ (12, -13) _____

2. Write the approximate coordinates of these animals on the zoo map:


(,)


(,)


(,)


(,)


(,)


(,)

3. The rhinos need shade. Draw three trees in the rhino enclosure and list their coordinates here:

_____

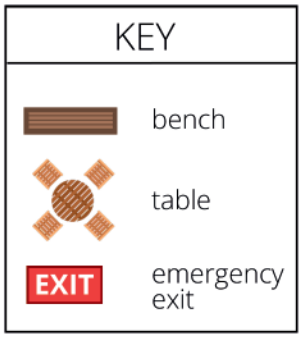
4. The Snack Shack and the Restroom are the same size. How many square feet is each building if each square is 2 ft^2? (Because each square is two square feet, after you count the length of a side, multiply it by two.)

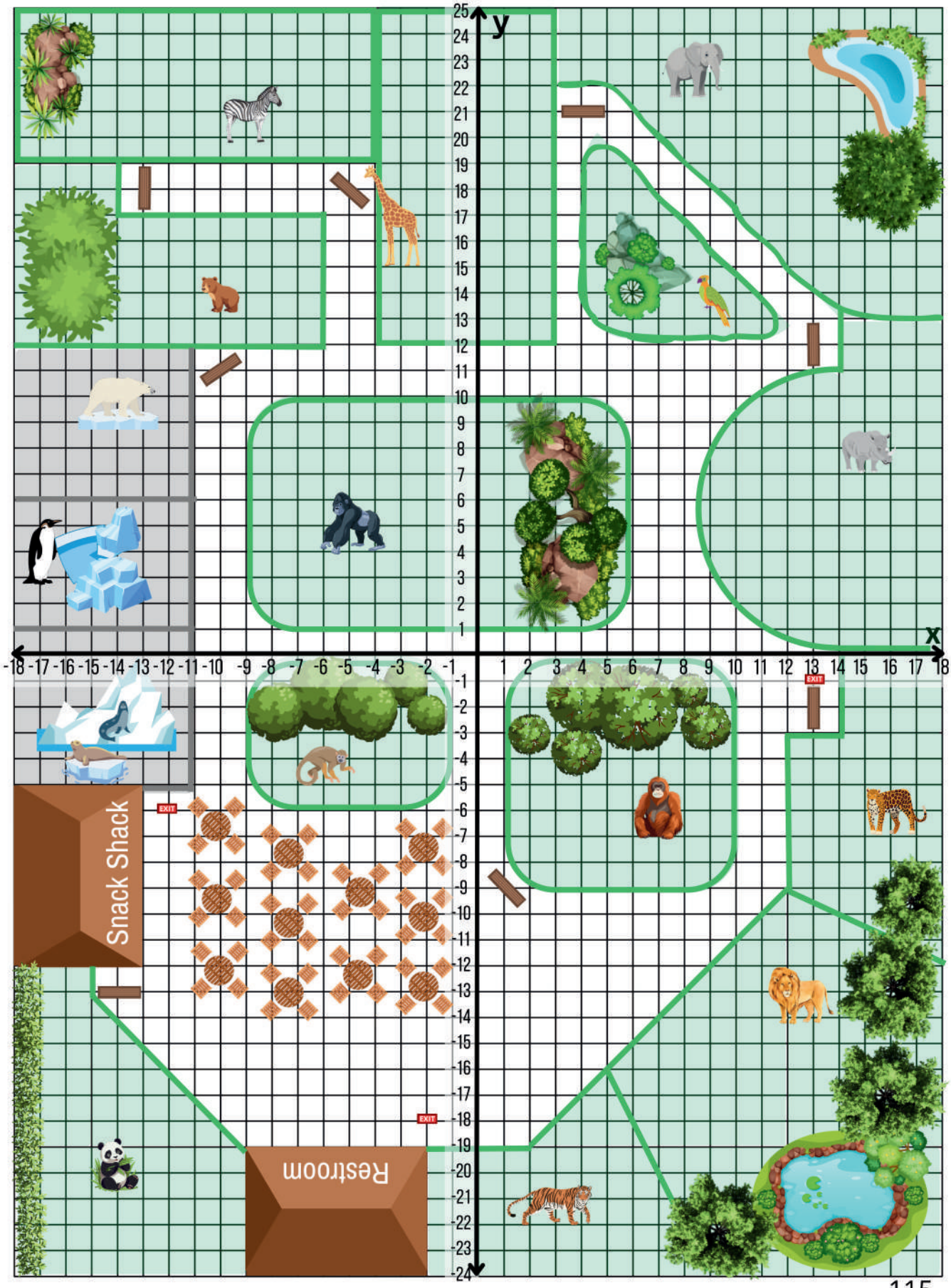
_____ (length) x _____ (width) = _____ (area)

5. Draw a path from the zebras to the restrooms. How many feet is the path?

6. List the coordinates of all of the benches:

7. List the coordinates of all of the emergency exit signs:




y
x
Snack Shack
Restroom
EXIT
EXIT
EXIT

Date _____

Problem	Expanded Form	Separate	Decompose	Add products
2 x 43	2 x (40 + 3)	2 x 40 2 x 3	2 x 4 x 10 2 x 3	80 + 6 86
6 x 26	6 x (20 + 6)	6 x 20 6 x 6		
3 x 59	3 x (50 + 9)			
8 x 67				

4 x 753	4 x (700 + 50 + 3)	4 x 700 4 x 50 4 x 3	4 x 7 x 100 4 x 5 x 10 4 x 3	keep your columns tidy! 2800 200 + 12 3012
7 x 468	7 x (400 + 60 + 8)	7 x 400 7 x 60 7 x 8	7 x 4 x 100 7 x 6 x 10 7 x 8	
5 x 274	5 x (200 + 70 + 4)	5 x 200 5 x 70 5 x 4		
2 x 363	2 x (300 + 60 + 3)			

A VARIABLE represents a number.
A COEFFICIENT is a number that precedes and is multiplied by a variable in a number sentence.

coefficient variable

$5A = 20$ $A = 4$

Trace each term then write it twice more.

variable

coefficient

Find the value of the VARIABLE in each number sentence.

$3A = 21$	$A =$ ____	$12 - D = 10$	$D =$ ____
$X + 3 = 12$	$X =$ ____	$3T = 24$	$T =$ ____
$12/F = 3$	$F =$ ____	$6C = 48$	$C =$ ____
$15 - Z = 9$	$Z =$ ____	$8X = 72$	$X =$ ____
$8Y = 56$	$Y =$ ____	$7S = 42$	$Y =$ ____

Send each number from the IN column through the function machine. Figure out the rule for each function and complete the OUT column of the function table.

rule: 3x

IN	OUT
1	3
5	15
3	9
7	21
2	6
8	24

rule:

IN	OUT
8	3
2	-3
3	-2
9	
5	
7	

rule:

IN	OUT
10	5
4	2
8	4
2	
12	
6	

rule:

IN	OUT
3	13
5	15
7	17
11	
8	
6	

rule:

IN	OUT
1	10
2	20
9	90
5	
7	
8	

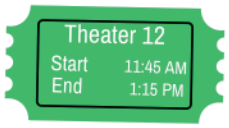
Date _____

Problem	Expanded Form	Separate	Decompose	Add products
3 x 634	3 x (600 + 30 + 4)	3 x 600 3 x 30 3 x 4	3 x 6 x 100 3 x 3 x 10 3 x 4	1800 90 + 12 1902
9 x 475	9 x (400 + 70 + 5)	9 x 400 9 x 70 9 x 5	9 x 4 x 100 9 x 7 x 10 9 x 5	
2 x 697	2 x (600 + 90 + 7)			

Keep your columns tidy!

4 x 2451	4 x (2000 + 400 + 50 + 1)	4 x 2000 4 x 400 4 x 50 4 x 1	4 x 2 x 1000 4 x 4 x 100 4 x 5 x 10 4 x 1	8000 1600 200 + 4 9804
8 x 2643	8 x (2000 + 600 + 40 + 3)	8 x 2000 8 x 600 8 x 40 8 x 3	8 x 2 x 1000 8 x 6 x 100 8 x 4 x 10 8 x 3	
7 x 7343	7 x (7000 + 300 + 40 + 3)	7 x 7000 7 x 300 7 x 40 7 x 4		
5 x 5866	5 x (5000 + 800 + 60 + 6)			

How long is your movie?



time	hours	minutes
11:45 AM 1:15 PM		

_____ minutes

Are there more than 60 minutes? If so, TRADE 60 minutes for 1 hour.

_____ hours and _____ minutes

How long is your all-day water park pass good?

time	hours	minutes
9:15 AM 8:45 PM		

_____ minutes

Are there more than 60 minutes? If so, TRADE 60 minutes for 1 hour.

_____ hours and _____ minutes

Your party starts at 1:00 PM. It will take you 1 hour and 55 minutes to drive there. What time should you leave?

time	hours	minutes
  1:00 PM		

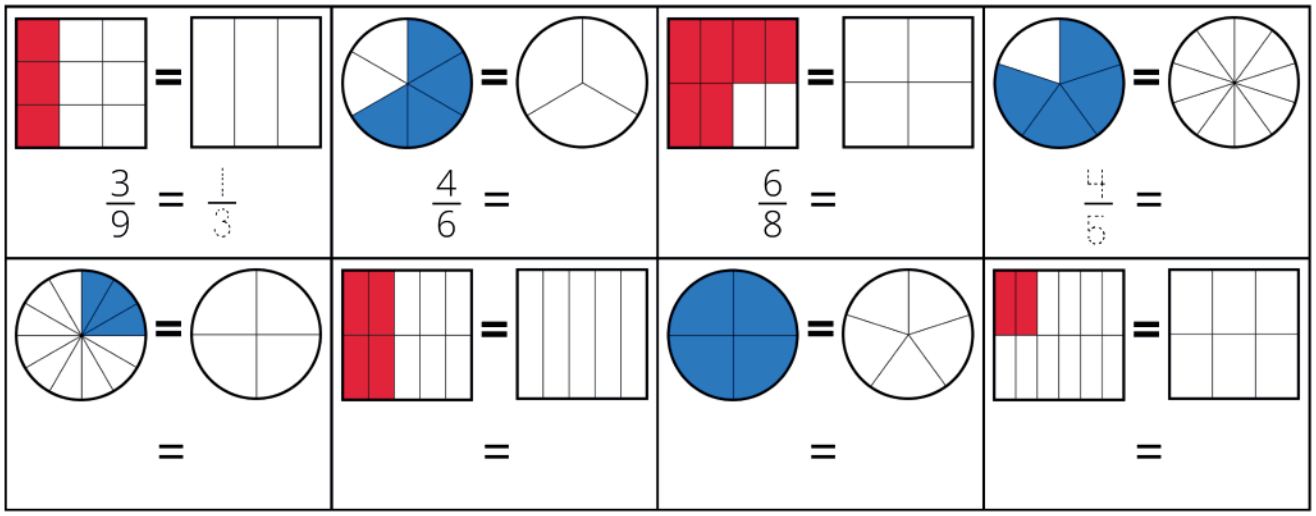
Draw lines to match each month to the number of days it has.

May	30 days	April
June		February
August	28/29 days	October
November		January
September	31 days	July
March		December

How many days are between Christmas and Valentine's Day? _____

How many days are between Halloween and Christmas? _____

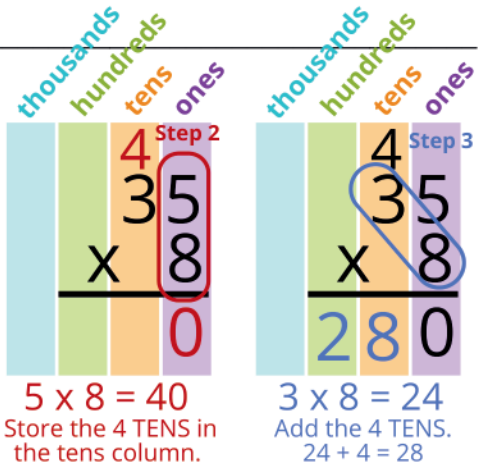
In each box, color the second shape so it's EQUIVALENT to the first fraction. Label each fraction.



Date _____

Multiplication Algorithm for 1-digit Multipliers:

1. Stack the numbers with the smaller number (the multiplier) on the bottom, lining up digits by place value.
2. Multiply the multiplier by the number in the ones place of the top number, writing the answer under the line. If the product of these two numbers is greater than nine, move the TEN over to the TENS PLACE.
3. Multiply the multiplier by EACH DIGIT in the top number until complete. Regroup where necessary.



Find the products.

70 x 2 =
4 x 2 = _____
add products

74
x 2

30 x 8 =
6 x 8 = _____
add products

36
x 8

85
x 6

34
x 2

86
x 7

78
x 8

63
x 4

45
x 9

31
x 3

67
x 6

53
x 8

97
x 5

46
x 3

1 foot = 12 inches

1 yard = 3 feet

1 mile = 5280 feet

Convert these US Customary units of length.

2 yards = _____ feet

12 feet = _____ yards

2 feet = _____ inches

36 inches = _____ yard

1 mile = _____ feet

60 inches = _____ yard _____ feet

10 feet = _____ yards _____ inches

11 feet = _____ yards _____ feet

Use your place value chart to fill in the blanks in this table.

Word Form	Expanded Form	Standard Form
Two million, one hundred twenty-four thousand, eight hundred fifty-three	2,000,000 + 100,000 + 20,000 + 4,000 + 800 + 50 + 3	2,124,853
Two hundred ten million, one hundred one thousand		210,101,000
		1,009,001
Seven trillion, one million	7,000,000,000 + 1,000,000	
Three trillion, nine hundred fifty million, two hundred thirty-five		3,950,000,235
		12,010,001,009

Use your number line to find the sum/difference of each problem.

8 - 11 = ____
7 - 15 = ____
3 - -5 = ____
-3 + 5 = ____

2 - -4 = ____
-8 - -8 = ____
4 - 10 = ____
3 - 5 = ____

-1 - 11 = ____
12 + -2 = ____
-9 + -7 = ____
9 - -7 = ____

Use your FRACTION CIRCLES or FRACTION STRIPS to compare these fractions by drawing the correct comparison symbol (<, >, =) between them.

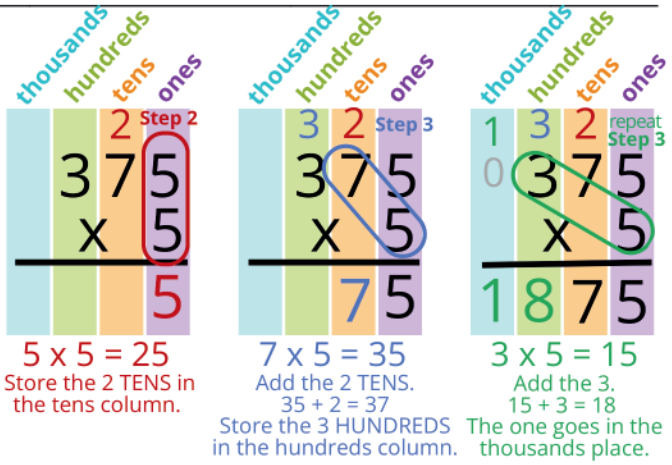
$\frac{3}{4} = \frac{6}{8}$ $\quad \frac{3}{8} \quad \frac{5}{8}$ $\quad \frac{1}{4} \quad \frac{1}{2}$

$\frac{1}{2} \quad \frac{4}{8}$ $\quad \frac{5}{5} \quad \frac{8}{8}$ $\quad \frac{1}{3} \quad \frac{1}{5}$

Date _____

Multiplication Algorithm for 1-digit Multipliers:

1. Stack the numbers with the smaller number (the multiplier) on the bottom, lining up digits by place value.
2. Multiply the multiplier by the number in the ones place of the top number, writing the answer under the line. If the product of these two numbers is greater than nine, move the TEN over to the TENS PLACE.
3. Multiply the multiplier by EACH DIGIT in the top number until complete. Regroup where necessary.



Find the products.

735 x 4 =

700 x 4 =
30 x 4 =
5 x 4 = _____

add products

$$\begin{array}{r} 735 \\ \times\ 4 \\ \hline \end{array}$$

849 x 6 =

800 x 6 =
40 x 6 =
9 x 6 = _____

add products

$$\begin{array}{r} 849 \\ \times\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 398 \\ \times\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 856 \\ \times\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 364 \\ \times\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 827 \\ \times\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 256 \\ \times\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 643 \\ \times\ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 284 \\ \times\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 936 \\ \times\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 478 \\ \times\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 832 \\ \times\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 598 \\ \times\ 7 \\ \hline \end{array}$$

Use a ruler or a tape measure to measure the following items to the nearest 1/4 inch (use units!):

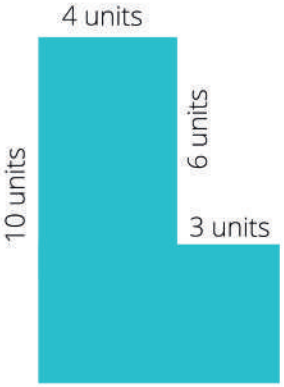
Your bed _____ A fork _____

Your table _____ A book _____

Your shoe _____ A door _____

A painting _____ A phone _____

Find the missing dimensions, then divide each shape into two or three rectangles. Find the perimeter and the area of each small rectangle, then add up those areas to find the area of the WHOLE shape. All of the angles are RIGHT ANGLES.



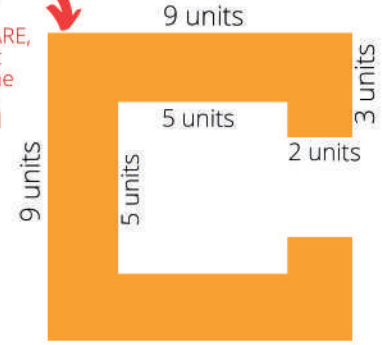
_____ (length) X _____ (width) = _____ (area)

_____ (length) X _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2

Calculate the area of the orange SQUARE, then subtract the area of the small square and the small rectangle.



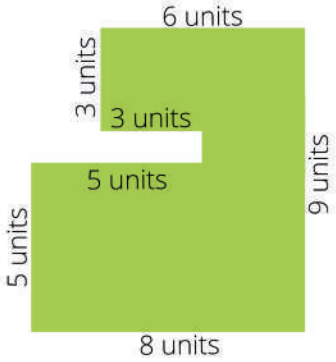
_____ (length) X _____ (width) = _____ (area)

_____ (length) X _____ (width) = _____ (area)

_____ (length) X _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2



_____ (length) X _____ (width) = _____ (area)

_____ (length) X _____ (width) = _____ (area)

_____ (length) X _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2

Use circles to group the items, then complete the equations.

$\frac{12}{3}$ = $12 \div 3 =$ $3\overline{)12}$ What is 1/3 of 12?

$\frac{12}{6}$ = $12 \div 6 =$ $6\overline{)12}$ What is 1/6 of 12?

$\frac{12}{4}$ = $12 \div 4 =$ $4\overline{)12}$ What is 1/4 of 12?

Solve:

$2^2 = 2 \times 2 =$ ____

$2^3 = 2 \times 2 \times 2 =$ ____

$2^4 = 2 \times 2 \times 2 \times 2 =$ ____

$2^5 = 2 \times 2 \times 2 \times 2 \times 2 =$ ____

$3^2 = 3 \times 3 =$ ____

$3^3 = 3 \times 3 \times 3 =$ ____

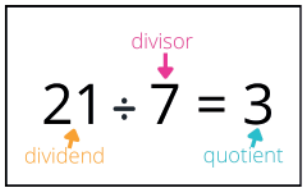
$3^4 = 3 \times 3 \times 3 \times 3 =$ ____

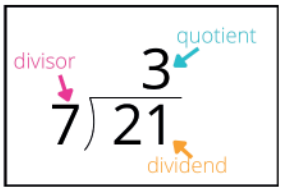
$3^5 = 3 \times 3 \times 3 \times 3 \times 3 =$ ____

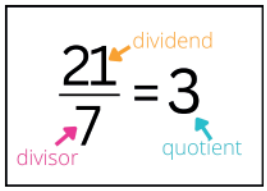
Date _____

$3\overline{)25}$ = 8 R 1

3 groups, each with 8 items, plus one leftover is 25 items.







Find the quotients. Use remainder notation.

$2\overline{)10}$	$3\overline{)12}$	$5\overline{)25}$	$3\overline{)24}$	$2\overline{)11}$
$3\overline{)26}$	$4\overline{)16}$	$6\overline{)19}$	$5\overline{)16}$	$6\overline{)25}$
$2\overline{)19}$	$3\overline{)11}$	$4\overline{)30}$	$7\overline{)50}$	$9\overline{)20}$

Find the products.

5132 x 4 =
5000 x 4 =
100 x 4 =
30 x 4 =
2 x 4 = _____
add products

$$\begin{array}{r} 5132 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5423 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3213 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4751 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3222 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4827 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2431 \\ \times \quad 2 \\ \hline \end{array}$$

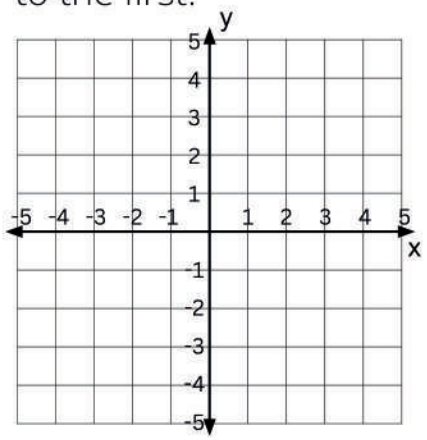
$$\begin{array}{r} 6844 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8739 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9832 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7368 \\ \times \quad 5 \\ \hline \end{array}$$

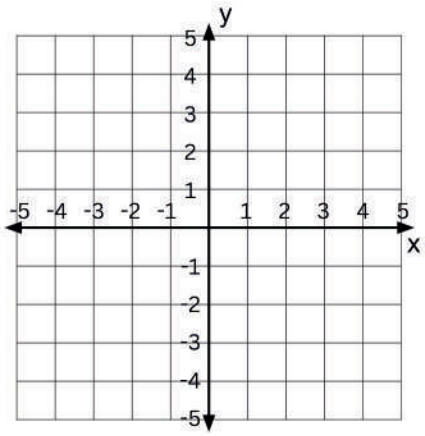
Let's draw polygons. Graph the points listed below each coordinate plane, then connect the dots in the order they are given. From the last point, return to the first.



1.(2, -3)
2.(4, 1)
3.(0, 4)
4.(-4, 1)
5.(-2, -3)

Shape name:

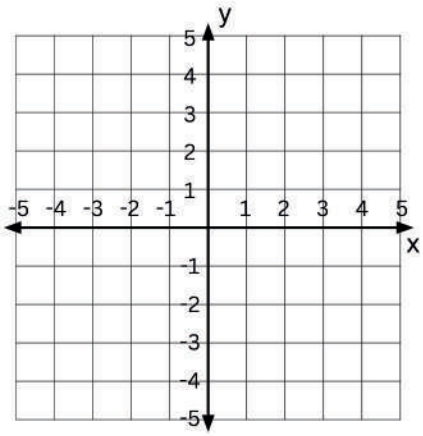
_____



1.(-2, -4)
2.(2, -4)
3.(4, 0)
4.(2, 4)
5.(-2, 4)
6.(-4. 0)

Shape name:

_____

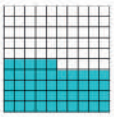


1.(-4, -1)
2.(1, -1)
3.(3, -4)
4.(5, 1)
5.(2, 4)
6.(-3, 3)

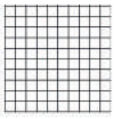
Shape name:

_____

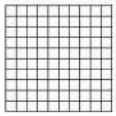
Each block has 100 squares. Color the squares to illustrate each percentage equation and fill in any missing parts of each equation.



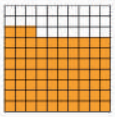
$45\% = \frac{45}{100}$



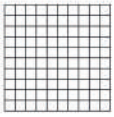
$19\% = \frac{\quad}{100}$



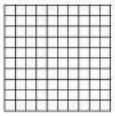
$\frac{\quad}{100} = \frac{25}{100}$



$\frac{\quad}{100} = \frac{\quad}{100}$

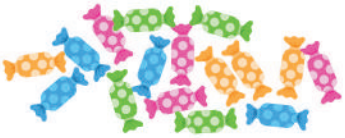


$38\% = \frac{\quad}{100}$



$\frac{\quad}{100} = \frac{71}{100}$

Use circles to group the items, then complete the equations.



$\frac{16}{4} =$ $16 \div 4 =$ $4\overline{)16}$

What is 1/4 of 16?
What is 2/4 of 16?

$\frac{16}{8} =$ $16 \div 8 =$ $8\overline{)16}$

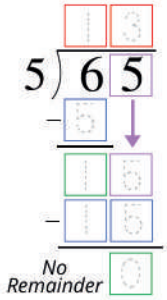
What is 1/8 of 16?
What is 4/8 of 16?

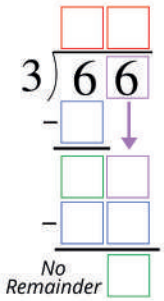
$\frac{16}{2} =$ $16 \div 2 =$ $2\overline{)16}$

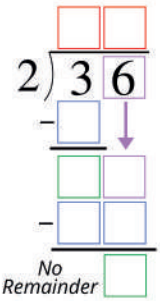
What is 1/2 of 16?
What is 2/2 of 16?

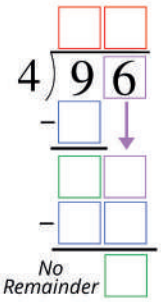
Date _____

Divide.
Multiply.
Subtract.
Bring Down.
Repeat.

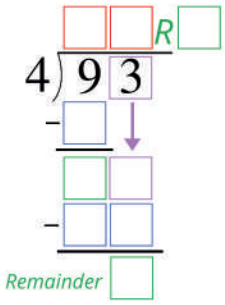


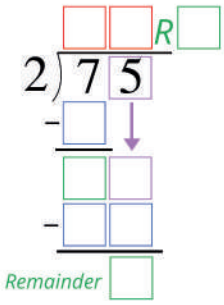


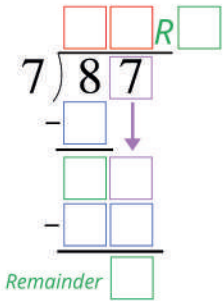


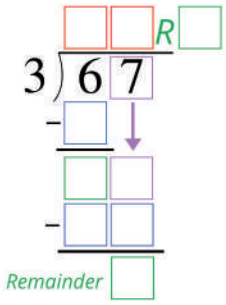


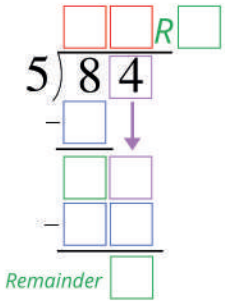
Find the quotients. These problems have remainders, but they follow the exact same pattern!

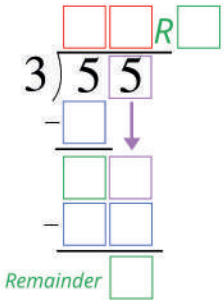


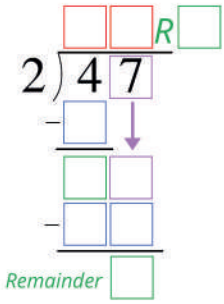


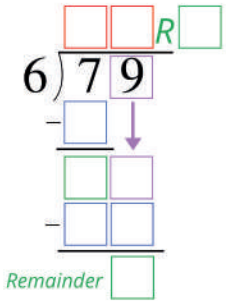


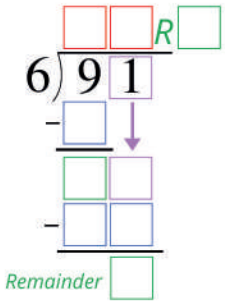


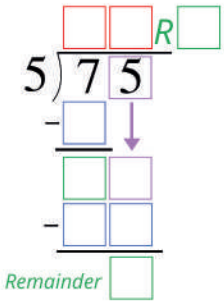


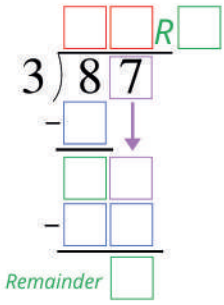


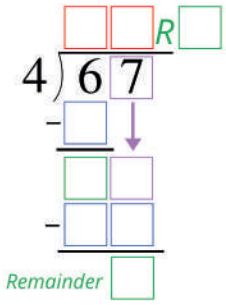












I'm thinking of a number between 20 and 30. The SUM of the 2 digits is 6.

What is my number? _____ What is the PRODUCT of the digits? _____

Find the positive square roots.

$\sqrt{16}$ =___ $\sqrt{25}$ =___ $\sqrt{36}$ =___ $\sqrt{9}$ =___

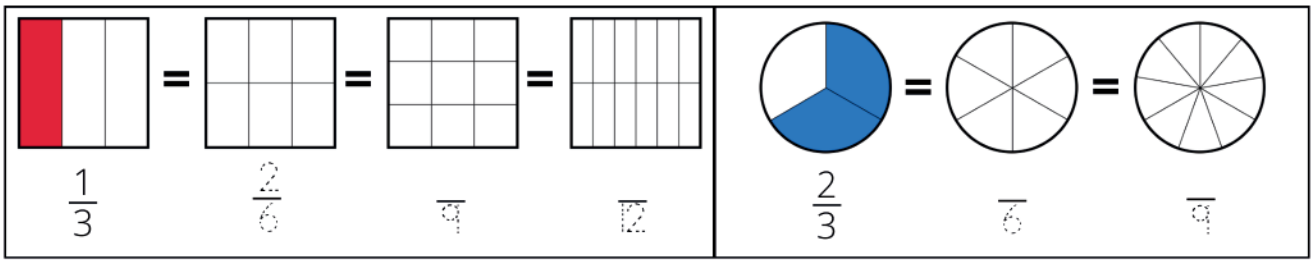
$\sqrt{81}$ =___ $\sqrt{100}$ =___ $\sqrt{64}$ =___ $\sqrt{49}$ =___

Draw lines of symmetry in each shape. Label each shape with its name.

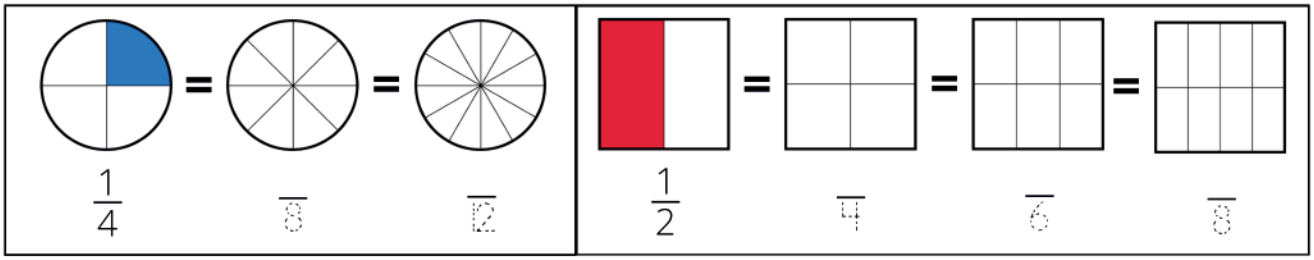


_____ _____ _____

Color all of the remaining shapes so they are equivalent to the first shape in each box. Label each fraction.



What do all of the DENOMINATORS above have in common?



What do all of the DENOMINATORS above have in common?

Use your number line to find the sum/difference of each problem.

-7 - 4 = ____ 1 - 2 = ____ 4 + -5 = ____

5 - -7 = ____ 4 - -5 = ____ 3 - 10 = ____

10 + -2 = ____ -4 + 5 = ____ 3 - 5 = ____

-2 + -7 = ____ 8 - 13 = ____ -2 - -2 = ____

Date _____

Find the factors of each number. List them from the least to the greatest. Circle each of the prime numbers.

18: ____, ____, ____, ____, ____, ____

11: ____, ____

5: ____, ____

4: ____, ____, ____

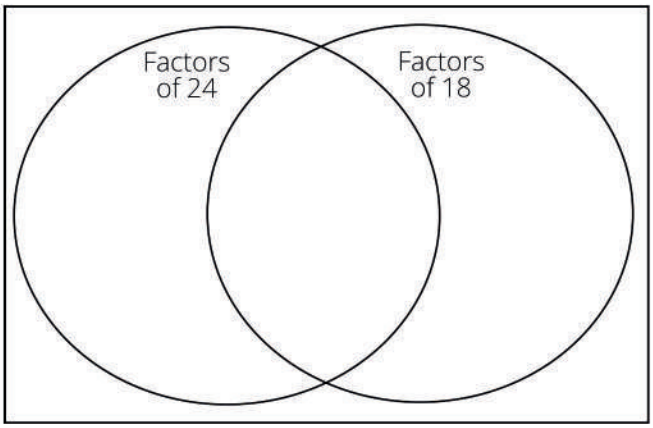
20: ____, ____, ____, ____, ____, ____

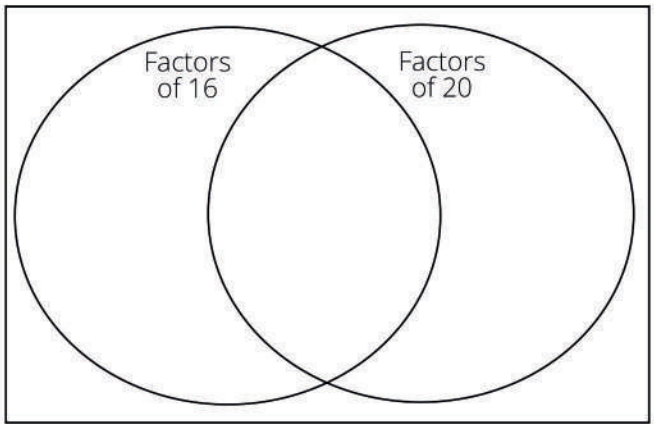
9: ____, ____, ____

10: ____, ____, ____, ____

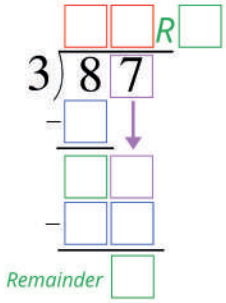
6: ____, ____, ____, ____

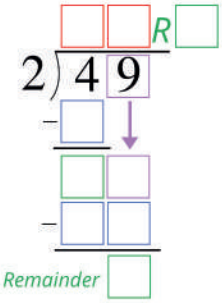
Complete these Venn Diagrams.

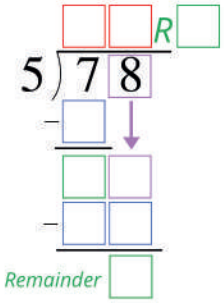


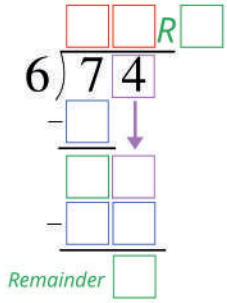


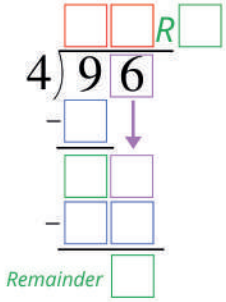
Find the quotients. Some have remainders and some don't.

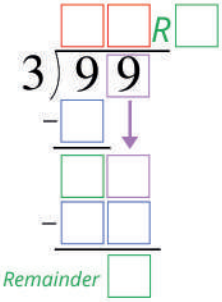


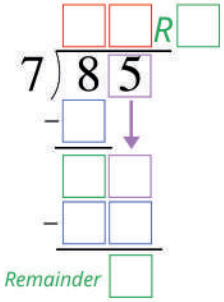


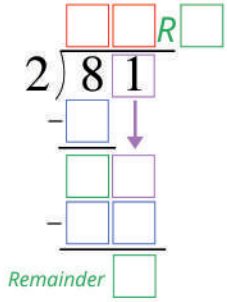




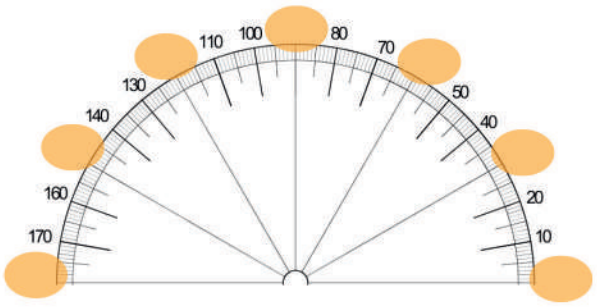


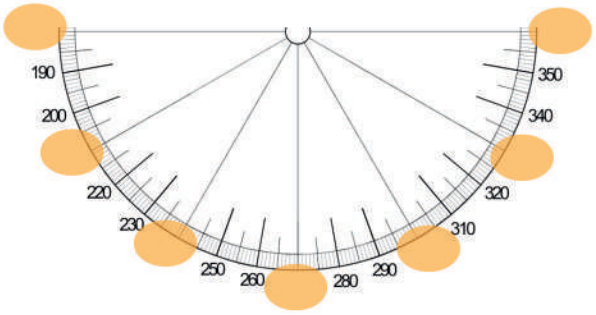




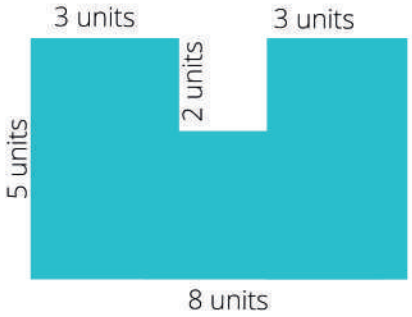


Use your reference pages to fill in the missing angles (the orange ovals).





All of the angles are RIGHT ANGLES. Find the missing dimensions. Add up the perimeter then find the AREA by subtraction. Multiply the overall length times the width of the LARGE shape, then subtract out the small shapes.



area of the large rectangle:

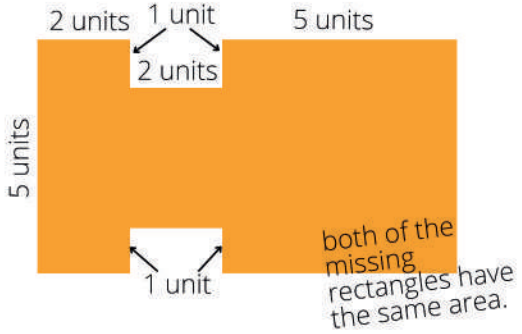
_____ (length) X _____ (width) = _____ (area)

subtract the area of the missing square:

_____ (length) X _____ (width) = _____ (area)

perimeter _____ units

area _____ units^2



area of the large rectangle:

_____ (length) X _____ (width) = _____ (area)

subtract the area of TWO missing rectangles:

DOUBLE the area of one missing rectangle.

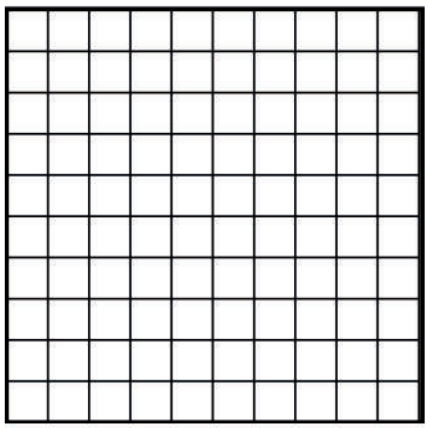
_____ (length) X _____ (width) = _____ (area)

perimeter _____ units

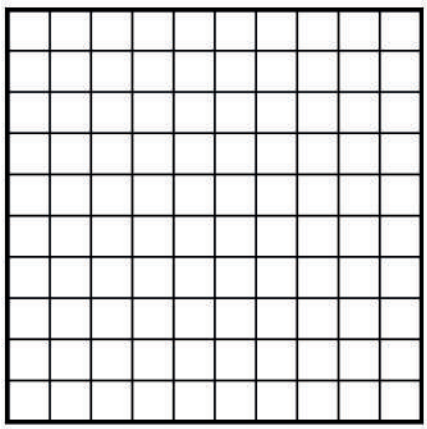
area _____ units^2

Draw rectangles with the following areas:

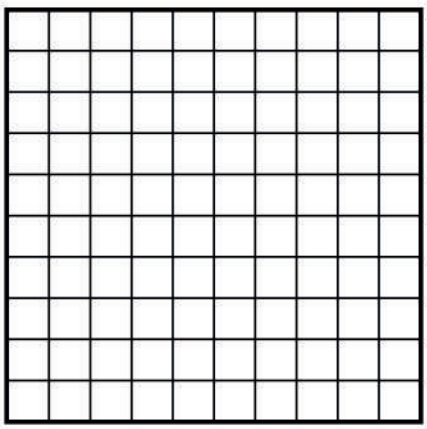
81 units^2



49 units^2



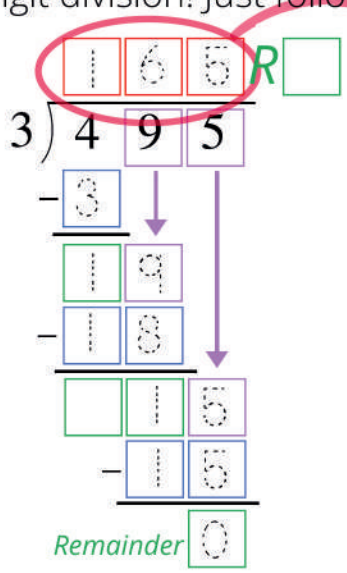
32 units^2



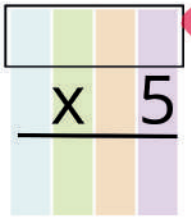
Date _____

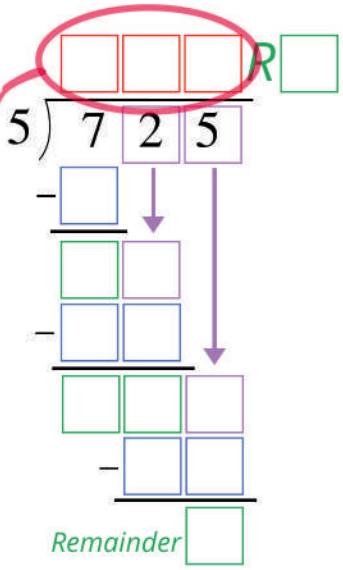
Oof! Three digit division! Just follow the same steps.

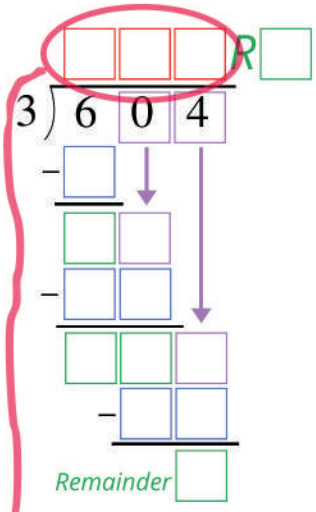
Divide.
Multiply.
Subtract.
Bring Down.
Repeat.

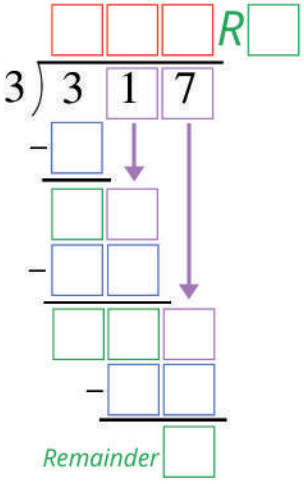


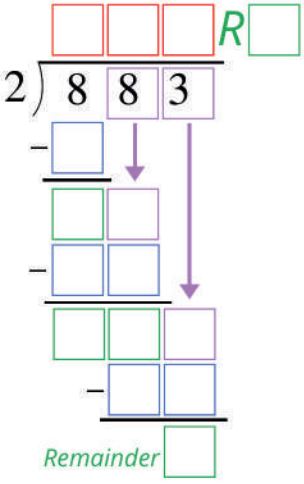
Check your division.

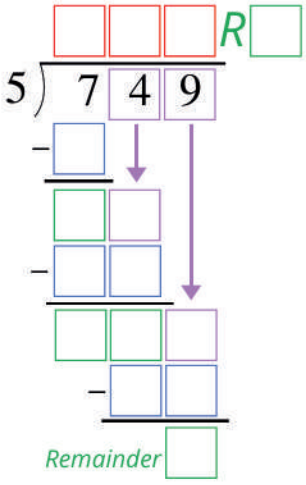




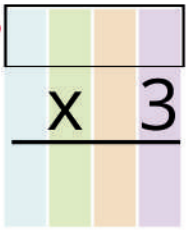




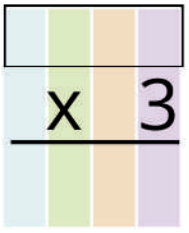




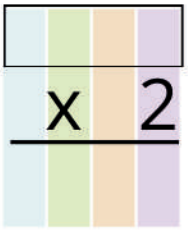
Check your division.



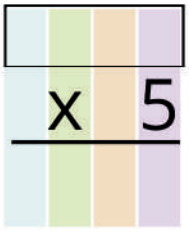
add the remainder _____



add the remainder _____



add the remainder _____



add the remainder _____

Round each number to the nearest 10 and add the rounded numbers.

51 + 38

50 + 40 = _____

45 + 25

_____ + _____ = _____

You gave the cashier $5.00 to buy a book that was $3.84. What is your change? Color coins to count UP from $3.84 to $5.00

500
−384

$5.00 = 500¢
$3.84 = 384¢

You gave the cashier $5.00 to buy 3 tubes of paint for $1.49 each. What is your change? Color coins to count UP.

How much money is this?

$10.75
dollars cents

$___.___
dollars cents

$___.___
dollars cents

$___.___
dollars cents

$___.___
dollars cents

Round each amount above to the nearest dollar.

$___
dollars

$___
dollars

$___
dollars

$___
dollars

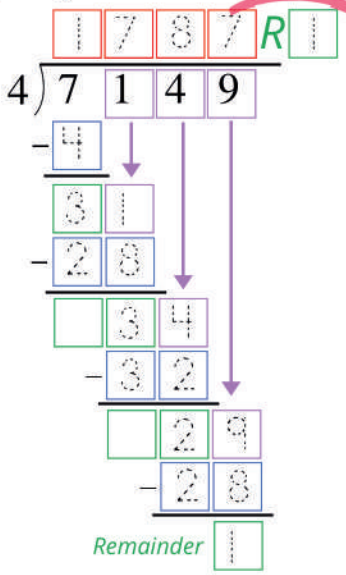
$___
dollars

List the months with 31 days. What fractional part of the year is this? _____

Date _____

Yikes! FOUR digits? Just follow the same pattern.

Divide.
Multiply.
Subtract.
Bring Down.
Repeat.



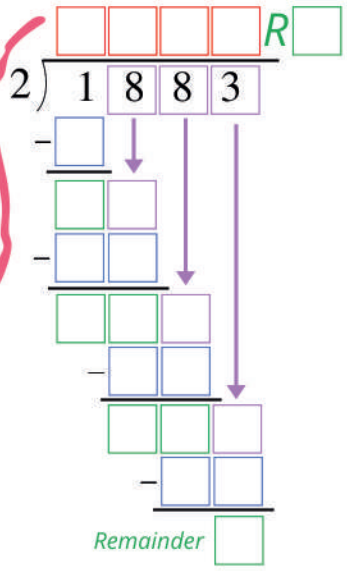
Check your division.

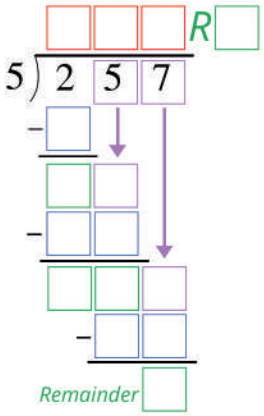
1787
x 4

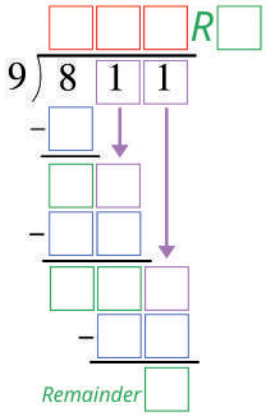
add the remainder _____

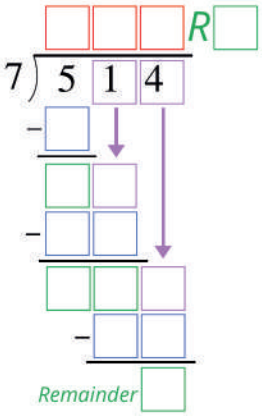
x 2

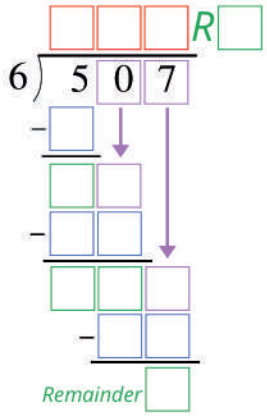
add the remainder _____

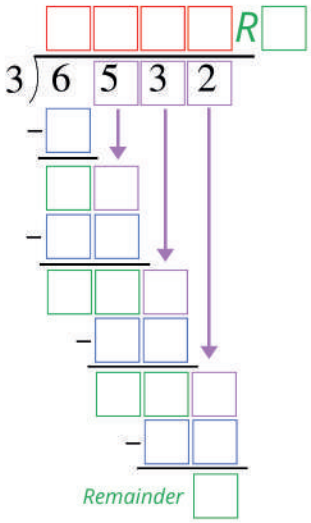


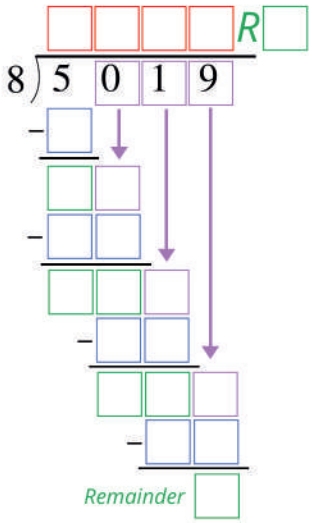


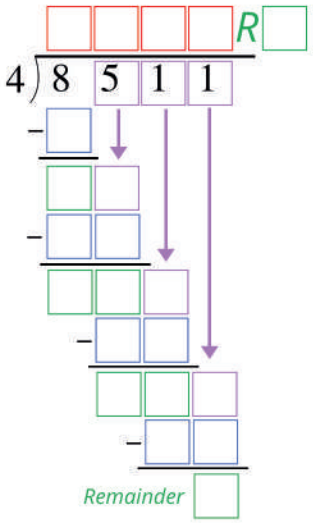


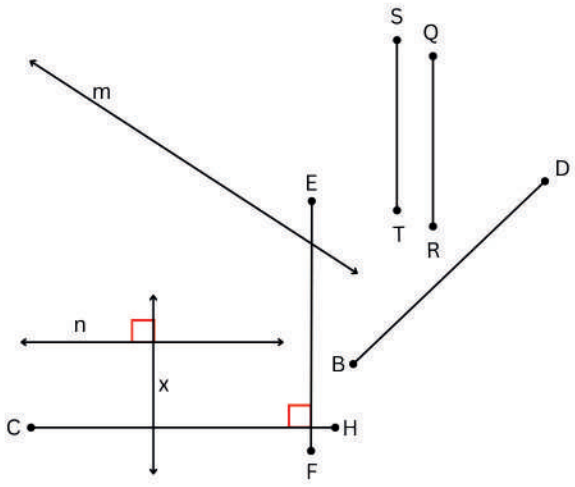




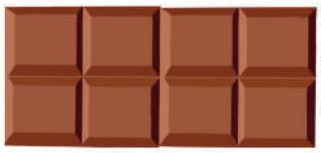








1. Trace the horizontal LINE red.
2. Trace the horizontal LINE SEGMENT orange.
3. Trace the vertical LINE green.
4. Trace the oblique LINE yellow.
5. Name the two perpendicular line segments:
   _____ and _____
6. Trace line segment $\overline{BD}$ purple.
7. Name the two parallel line SEGMENTS:
   _____ and _____



What fraction of this whole candy bar is one piece?

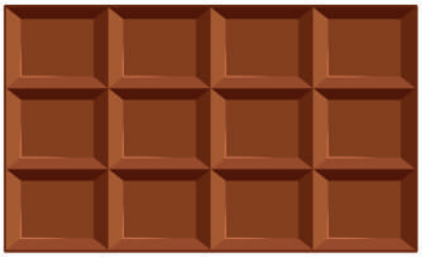
What fraction is half of this candy bar?

What fraction of this whole candy bar is one piece?

How many pieces is one third?

What fraction of this whole candy bar is one piece?

What fraction is half of this candy bar?



What fraction of this whole candy bar is one piece?

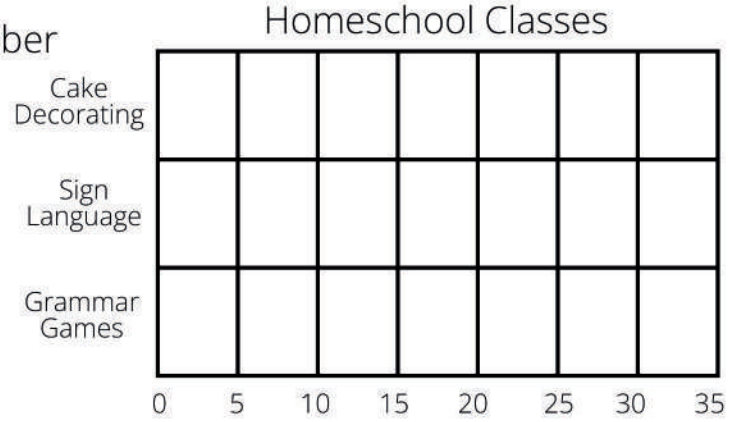
How many pieces is one fourth?

Draw a bar graph to show the number of children in each class:

Cake decorating: 23 children

Sign Language: 34 children

Grammar Games: 18 children



Date _____

You are making holiday cards for your family. Each card has three trees on the front. You have 87 trees. How many cards can you make?

3 trees = 1 card
30 trees = 10 cards

	trees	cards
How many times can you subtract 30?	87	20
	−60	
	27	
How many times can you subtract 3?	−27	9
	0	

$$3\overline{)87}$$

$$8\overline{)755}\ R\square$$

Remainder ☐

$$6\overline{)4128}\ R\square$$

Remainder ☐

$$5\overline{)7812}\ R\square$$

Remainder ☐

$$9\overline{)4357}\ R\square$$

Remainder ☐

Show 4 ways to make 69¢.

				total coins
	6		9	15

Show 4 ways to make 58¢.

				total coins
2		1	3	6

Show 4 ways to make 85¢.

				total coins

You are building toy cars. Each car needs 4 wheels. If you have a big box with 940 wheels, how many cars can you build?

4 wheels = 1 car
40 wheels = 10 cars
400 wheels = 100 cars

	wheels	cars
How many times can you subtract 400?	940	200
	−800	
	140	
How many times can you subtract 40?	−120	30
	20	
How many times can you subtract 4?	−20	5
	0	

$4\overline{)940}$

Remainder ☐

$3\overline{)1927}\ R\ ☐$

Remainder ☐

$2\overline{)8246}\ R\ ☐$

Remainder ☐

$5\overline{)3157}\ R\ ☐$

Remainder ☐

$3\overline{)2864}\ R\ ☐$

Remainder ☐

Find the products.

7347 x 2	3762 x 6	4738 x 4	8273 x 3	1394 x 8
1483 x 8	2893 x 5	1019 x 9	6381 x 4	2973 x 7

Date _____

Order these fractions from least to greatest. (All of the numerators are one!)

$\frac{1}{3}$ $\frac{1}{1}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{5}$

$\frac{1}{12}$ $\frac{1}{10}$ $\frac{1}{11}$ $\frac{1}{8}$ $\frac{1}{6}$

Write a comparison symbol between each pair of fractions. Use your fraction circles if you need to. (All of the numerators are one!)

$\frac{1}{5} \bigcirc \frac{1}{6}$ $\frac{1}{2} \bigcirc \frac{1}{7}$ $\frac{1}{10} \bigcirc \frac{1}{9}$ $\frac{1}{7} \bigcirc \frac{1}{7}$

$\frac{1}{3} \bigcirc \frac{1}{1}$ $\frac{1}{4} \bigcirc \frac{1}{8}$ $\frac{1}{2} \bigcirc \frac{1}{11}$ $\frac{1}{5} \bigcirc \frac{1}{4}$

Write a comparison symbol between each pair of fractions. Use your fraction circles if you need to. (The denominators in each pair are the same!)

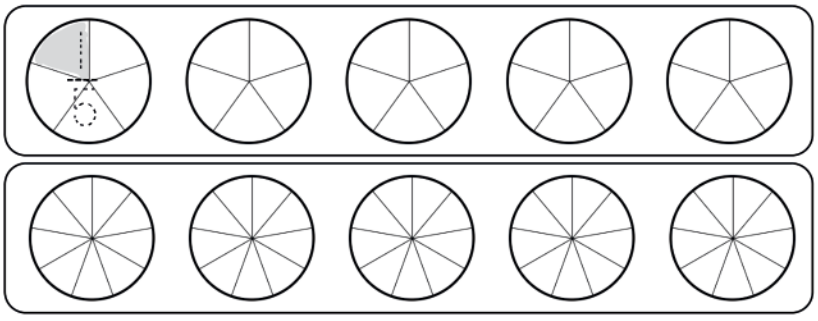
$\frac{2}{5} \bigcirc \frac{3}{5}$ $\frac{7}{8} \bigcirc \frac{2}{8}$ $\frac{2}{4} \bigcirc \frac{5}{4}$ $\frac{3}{6} \bigcirc \frac{4}{6}$

$\frac{1}{3} \bigcirc \frac{2}{3}$ $\frac{1}{7} \bigcirc \frac{6}{7}$ $\frac{3}{12} \bigcirc \frac{1}{12}$ $\frac{5}{9} \bigcirc \frac{4}{9}$

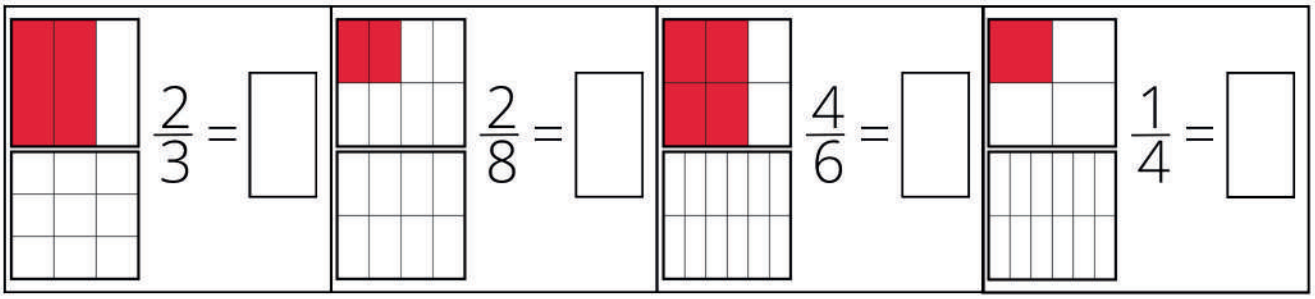
Order these fractions from least to greatest. (All of the denominators are the same!)
Color the fraction then write the fraction over it.

$\frac{3}{5}$ $\frac{5}{5}$ ~~$\frac{1}{5}$~~ $\frac{2}{5}$ $\frac{4}{5}$

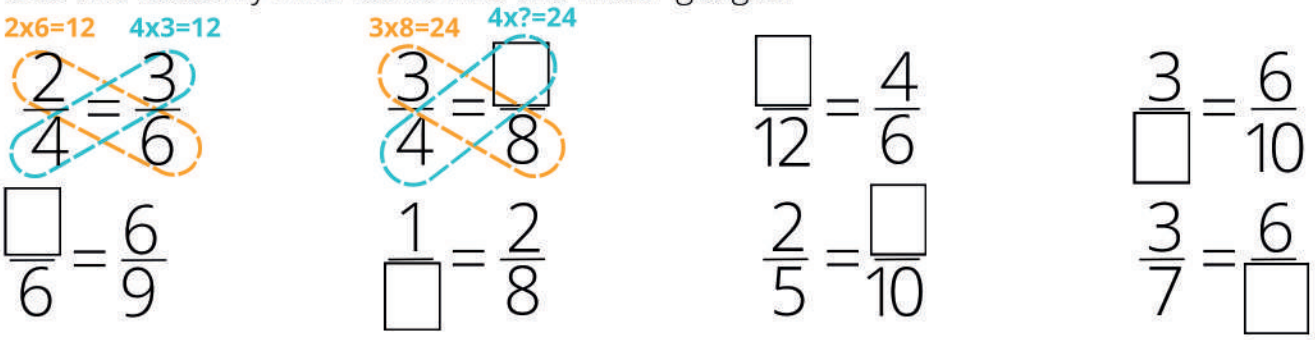
$\frac{2}{9}$ $\frac{1}{9}$ $\frac{7}{9}$ $\frac{4}{9}$ $\frac{5}{9}$

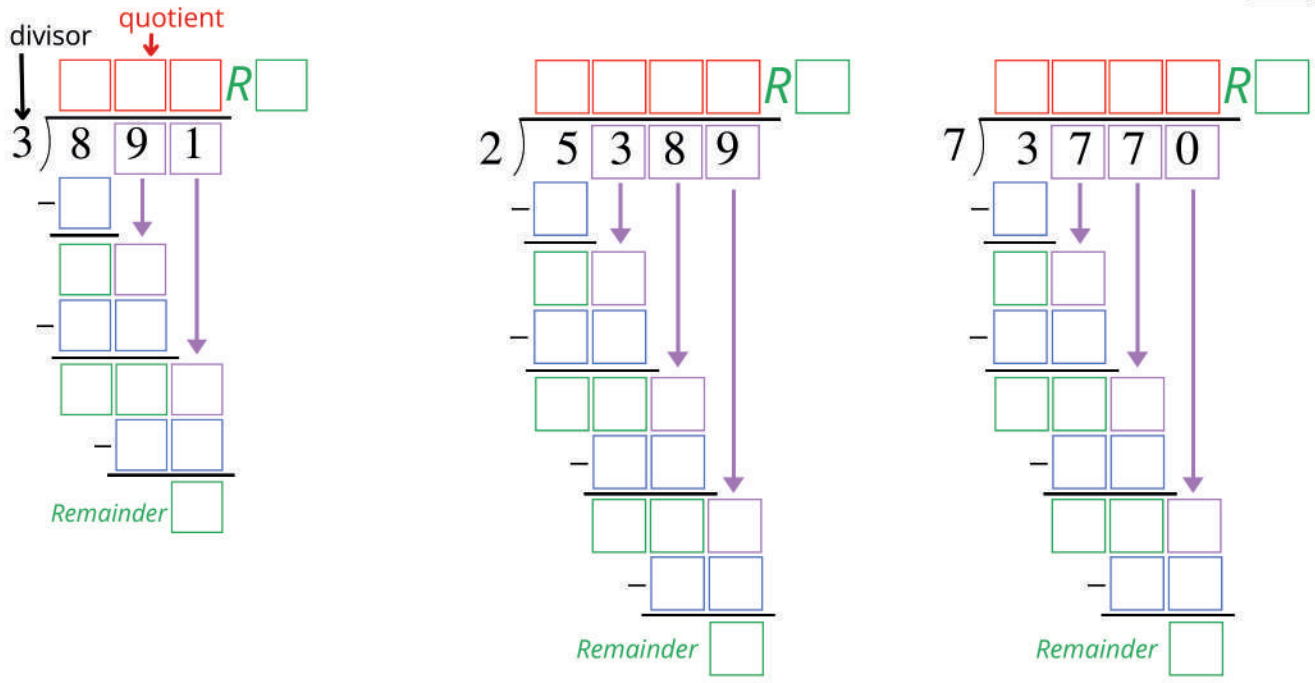


Color pieces of each bottom shape so it matches the top shape. Then write each equivalent fractions number sentence.

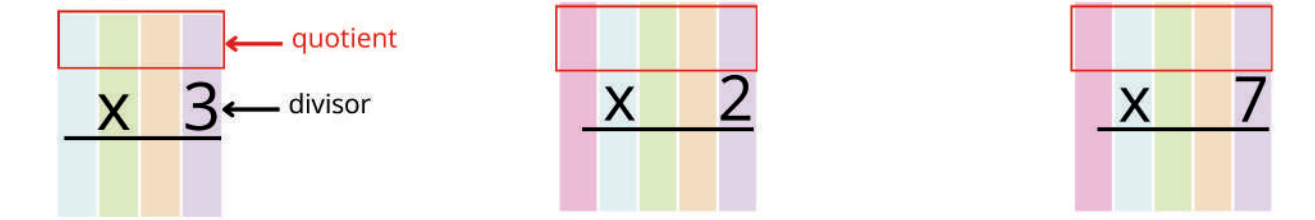


Use the Butterfly Method to find the missing digits.





Multiply the QUOTIENT and divisor from each problem above to check your division.



add the remainder _____ add the remainder _____ add the remainder _____

Date _____

List the first ten multiples of:

3, 6, 9, 12, 15, 18, 21, 24, 27, 30

4, ___, ___, ___, ___, ___, ___, ___, ___, ___

5, ___, ___, ___, ___, ___, ___, ___, ___, ___

6, ___, ___, ___, ___, ___, ___, ___, ___, ___

Name two common multiples of 3 and 4.

_____, _____

Name three common multiples of 3 and 6.

_____, _____, _____

What is the LEAST common multiple of 3 and 6? _____

What is the LEAST common multiple of 3 and 5? _____

What is the LEAST common multiple of 5 and 6? _____

What is the LEAST common multiple of 4 and 3? _____

Find the least common denominator of each pair of fractions

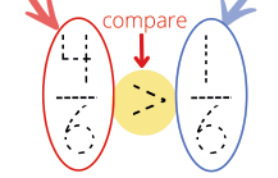
$\frac{2}{3}$ and $\frac{1}{6}$ LCD 6

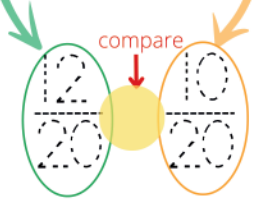
$\frac{3}{5}$ and $\frac{2}{4}$ LCD 20

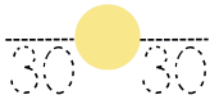
$\frac{4}{6}$ and $\frac{5}{5}$ LCD _____

$\frac{1}{3}$ and $\frac{3}{4}$ LCD _____

Rewrite each fraction in each pair above with the LCD. Write the correct comparison symbol between them.







What if you have TWO chocolate bars? Each has twelve pieces. How many pieces do you have? _____

$\frac{24}{2}$ = improper fraction

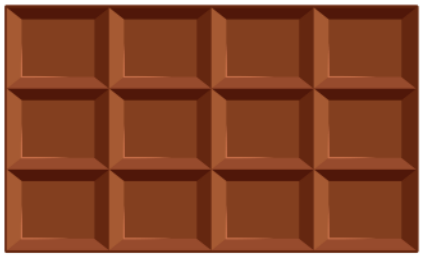
$24 \div 2 =$

$2\overline{)24}$

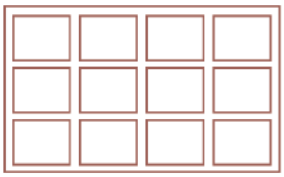
Improper fractions have a larger numerator than denominator. Write them as a whole number or mixed number instead.

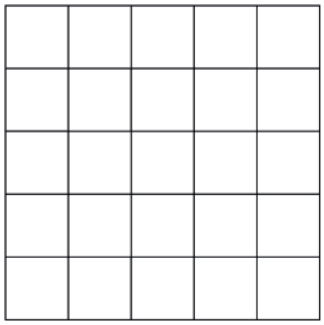
If you shared these two chocolate bars between four people, how many pieces would each person get? ____ What fraction is that?

Name That Fraction!



Draw a picture and write two equivalent fractions to represent each amount of chocolate. One of the the fractions in each box should have a denominator of twelve.

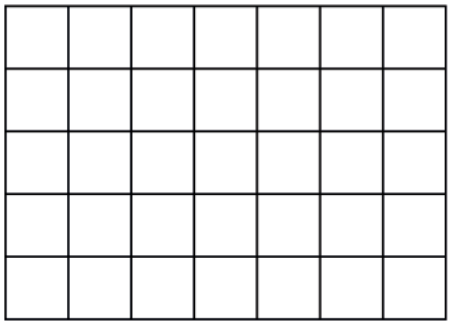
12 pieces  $\frac{12}{12} = \frac{1}{1} = 1$	9 pieces
6 pieces	4 pieces
3 pieces	2 pieces



Area = _____ x _____ = _____ units^2
length width

Color 3 columns of squares.
What is the FRACTION of the colored area compared to the total area? _____

AREA of the colored squares = _____ units^2



Area = _____ x _____ = _____ units^2
length width

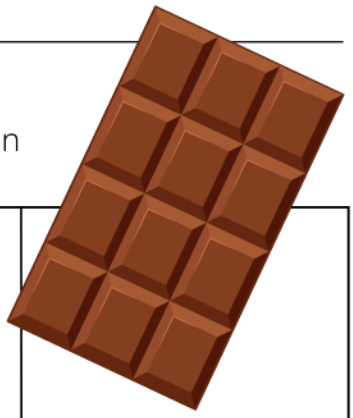
Color 5 columns of squares.
What is the FRACTION of the colored area compared to the total area? _____

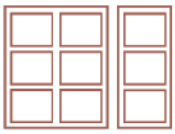
AREA of the colored squares = _____ units^2

Date _____

Fraction Addition

Draw a picture to illustrate each number sentence in each box, then find a common denominator and add the fractions.



$\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$ 	$\frac{1}{2} + \frac{1}{2} =$	$\frac{1}{3} + \frac{1}{6} =$	
$\frac{1}{3} + \frac{1}{3} =$	$\frac{1}{4} + \frac{1}{12} =$	$\frac{1}{2} + \frac{1}{6} =$	$\frac{1}{2} + \frac{1}{3} =$
$\frac{3}{4} + \frac{1}{4} =$	$\frac{2}{12} + \frac{4}{6} =$	$\frac{2}{3} + \frac{1}{4} =$	$\frac{5}{6} + \frac{1}{12} =$

Fraction Subtraction Hey, that rhymes!

Draw a picture to illustrate each number sentence in each box, then find a common denominator and subtract the fractions.

$\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$ 	$\frac{1}{2} - \frac{3}{12} =$	$\frac{1}{4} - \frac{1}{6} =$	$\frac{2}{3} - \frac{5}{12} =$
$\frac{1}{3} - \frac{1}{4} =$	$\frac{1}{4} - \frac{1}{12} =$	$\frac{3}{4} - \frac{3}{6} =$	$\frac{1}{2} - \frac{1}{3} =$

List the first ten multiples of:

6, 12, 18, ___, ___, ___, ___, ___, ___, ___

7, 14, 21, ___, ___, ___, ___, ___, ___, ___

Find the LCD:

$\frac{2}{6}$ and $\frac{5}{7}$ LCD _____

4, 8, 12, ___, ___, ___, ___, ___, ___, ___

6, 12, 18, ___, ___, ___, ___, ___, ___, ___

$\frac{1}{4}$ and $\frac{2}{6}$ LCD _____

3, 6, 9, ___, ___, ___, ___, ___, ___, ___

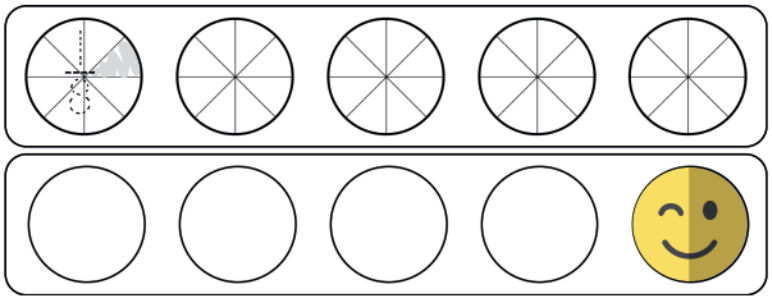
8, 16, 24, ___, ___, ___, ___, ___, ___, ___

$\frac{1}{3}$ and $\frac{3}{8}$ LCD _____

Order these fractions from least to greatest. Draw each fraction, then label it.

$\frac{3}{8}$ $\frac{5}{8}$ $\frac{1}{8}$ $\frac{2}{8}$ $\frac{4}{8}$

$\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{5}$ $\frac{1}{3}$ $\frac{1}{6}$



Use your number line to find the sum/difference of each problem.

11 + -13 = ___

-9 + -14 = ___

-1 - 12 = ___

3 - -7 = ___

5 - -5 = ___

2 - 6 = ___

7 - 8 = ___

-8 + 7 = ___

-9 - -8 = ___

5 - -10 = ___

11 - 10 = ___

3 - 12 = ___

Round each number to the nearest 10; add the rounded numbers mentally.

67 + 35

70 + 40 = _____

88 + 24

_____ + _____ = _____

23 + 19

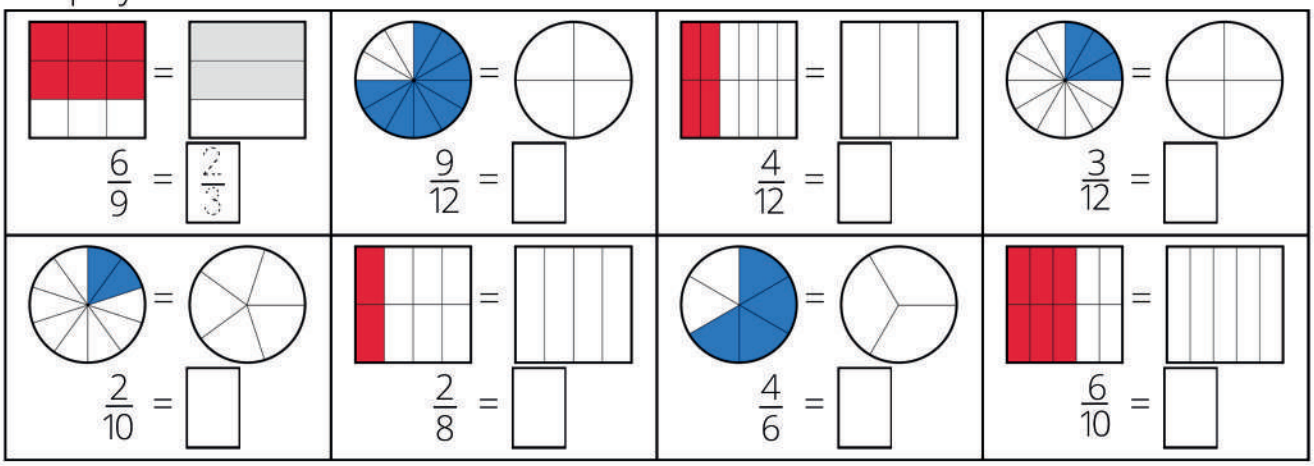
_____ + _____ = _____

55 + 54

_____ + _____ = _____

Date _____

Simplify these fractions.



Fractions LCD 12	3/4	2/3	1/6	1/2	4/12
Equivalent Fractions with LCD	9/12	8/12	2/12		
Order fractions least to greatest	2/12				9/12

Fractions LCD ____	2/5	1/1	3/4	1/2	7/10
Equivalent Fractions with LCD					
Order fractions least to greatest					

Add these fractions:

$\frac{2}{4} + \frac{2}{6} =$

- Find the Lowest Common Denominator
- Convert both fractions so they have the LCD.
- Add the fractions.
- Simplify the sum.

List the first ten multiples of:

4, 8, 12, ___, ___, ___, ___, ___, ___, ___

6, 12, 18, ___, ___, ___, ___, ___, ___, ___

Find the LCD:

$\frac{2}{4}$ and $\frac{2}{6}$ LCD 24

use this LCD

Convert both of these fractions so they have a common denominator:

$\frac{2}{4} \times \frac{6}{6} = \frac{12}{24}$

multiply by ONE $= 1$

this is the EQUIVALENT FRACTION with the common denominator

multiply this number by 4 to get the LCD

LCD

$\frac{2}{6} \times \frac{\square}{\square} = \frac{\square}{\square}$

multiply by ONE $= 1$

this is the EQUIVALENT FRACTION with the common denominator

multiply this number by 6 to get the LCD

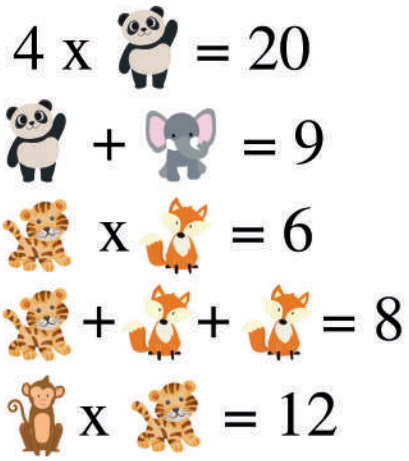
LCD

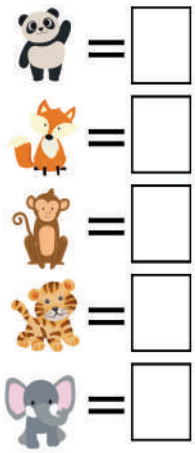
$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$

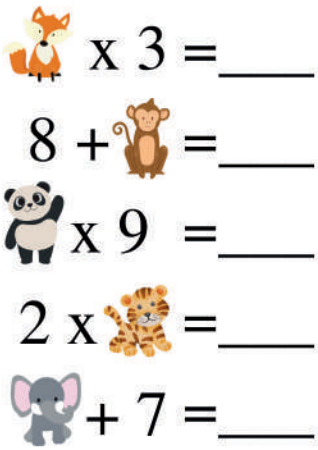
add the EQUIVALENT FRACTIONS of the original fractions

SUM

simplify

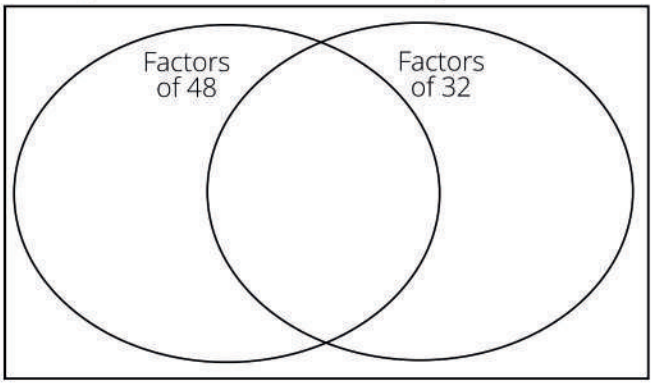


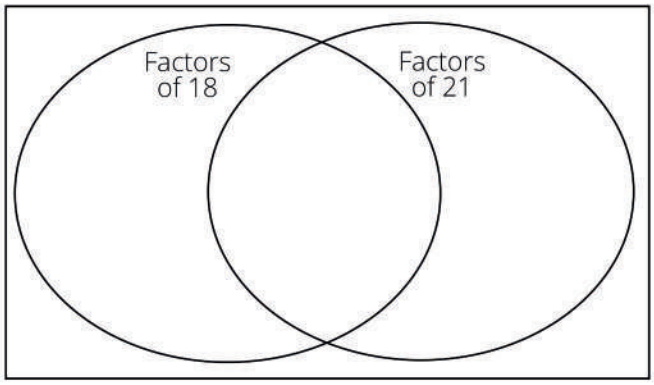




Five children will share fifteen cookies. Write a number sentence and illustrate it.

Complete these Venn Diagrams.





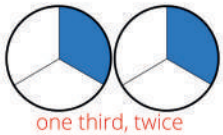
Use your number line to find the sum/difference of each problem.

3 + 5 = ____	4 + -8 = ____	-2 - 6 = ____
3 - -5 = ____	4 - 8 = ____	2 - -6 = ____
-3 + 5 = ____	4 + 8 = ____	6 + -2 = ____
3 - 5 = ____	-4 - -8 = ____	-2 + -6 = ____

Date _____

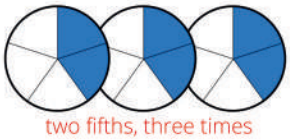
Multiply fractions by WHOLE numbers. Always simplify!

$\frac{1}{3} \times 2 = \frac{2}{1} = \frac{2}{3}$



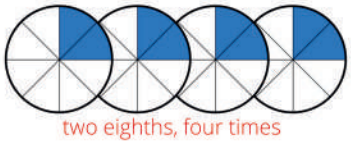
one third, twice

$\frac{2}{5} \times 3 =$



two fifths, three times

$\frac{2}{8} \times 4 =$



two eighths, four times

$\frac{3}{7} \times 3 =$ $\frac{1}{4} \times 2 =$ $\frac{2}{6} \times 5 =$ $\frac{2}{3} \times 6 =$

Multiply fractions by fractions. Always simplify!

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

$\frac{4}{4} \times \frac{1}{2} = \frac{4}{8} = \frac{1}{2}$

$\frac{1}{3} \times \frac{1}{4} =$ $\frac{1}{4} \times \frac{3}{4} =$ $\frac{3}{5} \times \frac{3}{6} =$ $\frac{1}{2} \times \frac{1}{4} =$

The operators are missing! Insert the correct operator (+, -, x) in each yellow circle to make the number sentence true. All answers have been simplified.

$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ $\frac{3}{4} \bigcirc \frac{2}{5} = \frac{7}{20}$ $\frac{2}{3} \bigcirc \frac{3}{4} = \frac{1}{2}$ $\frac{2}{5} \bigcirc \frac{3}{5} = 1$

$\frac{1}{3} \bigcirc \frac{1}{3} = \frac{1}{9}$ $\frac{1}{4} \bigcirc \frac{2}{3} = \frac{11}{12}$ $\frac{3}{5} \bigcirc \frac{1}{2} = \frac{1}{10}$ $\frac{2}{3} \bigcirc \frac{1}{3} = \frac{1}{3}$

$\frac{4}{5} \bigcirc \frac{2}{3} = \frac{2}{15}$ $\frac{5}{6} \bigcirc \frac{2}{5} = \frac{1}{3}$ $\frac{3}{7} \bigcirc \frac{5}{7} = 1\frac{1}{7}$ $\frac{1}{2} \bigcirc \frac{2}{4} = 1$

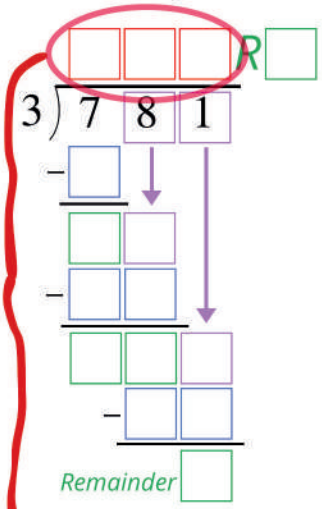
How much change will you receive if you pay for each item with $1.00?

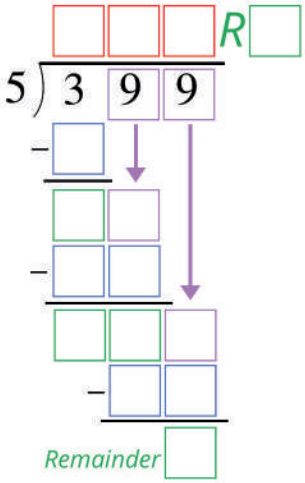
_____ _____ _____

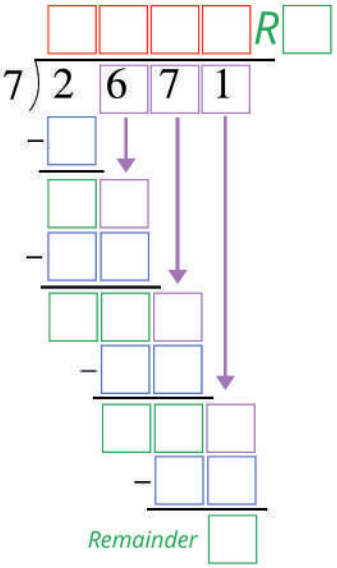
Fractions LCD ____	$\frac{3}{6}$	$\frac{1}{2}$	$\frac{2}{4}$	$\frac{7}{8}$	$\frac{2}{3}$
Equivalent Fractions with LCD					
Order fractions least to greatest					

Fractions LCD ____	$\frac{1}{5}$	$\frac{9}{10}$	$\frac{1}{3}$	$\frac{6}{15}$	$\frac{5}{6}$
Equivalent Fractions with LCD					
Order fractions least to greatest					

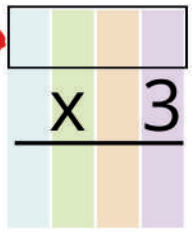
Find the quotients.

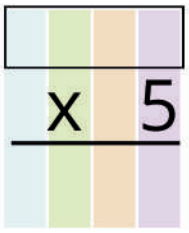


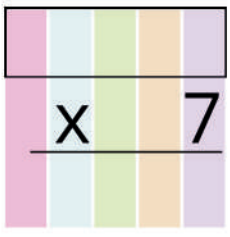




Check your division.







add the remainder _____ add the remainder _____ add the remainder _____

Date _____

Divide fractions by WHOLE numbers. Always simplify!
Never divide by a fraction, instead multiply by the reciprocal.

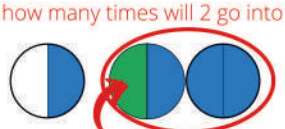
$\frac{1}{3} \times 3\frac{1}{3} = \frac{1}{9}$

how many times will 3 go into 1/3?

only 1/9 of 3 will fit inside 1/3

$\frac{1}{2} \times 2\frac{1}{2} = \frac{1}{4}$

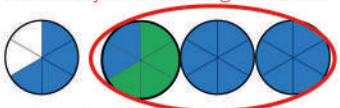
how many times will 2 go into 1/2?



only 1/4 of 2 will fit inside 1/2

$\frac{4}{6} \times 3\frac{1}{3} = \frac{4}{18} = \frac{2}{9}$

how many times will 3 go into 4/6?



only 4/18 of 3 will fit inside 4/6

$\frac{3}{7} \div 3 =$ $\frac{1}{4} \div 3 =$ $\frac{2}{6} \div 3 =$ $\frac{2}{3} \div 3 =$

Divide fractions by fractions. Always simplify!
Never divide by a fraction, instead multiply by the reciprocal.

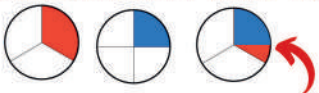
$\frac{1}{2} \times \frac{1}{2} = \frac{2}{2} = 1$

how many times will 1/2 go into 1/2?

once - they're the same size!

$\frac{1}{3} \times \frac{1}{4} = \frac{4}{3} = 1\frac{1}{3}$

how many times will 1/4 fit into 1/3?



once AND another 1/3 of 1/4

$\frac{4}{5} \times \frac{1}{2} = \frac{8}{5} = 1\frac{3}{5}$

how many times will 1/2 fit into 4/5?

once AND another 3/5 of 4/5

$\frac{1}{3} \div \frac{1}{6} =$ $\frac{2}{4} \div \frac{1}{4} =$ $\frac{3}{4} \div \frac{1}{8} =$ $\frac{3}{5} \div \frac{1}{5} =$

One donut costs 75 cents. How much does one half dozen donuts cost?
What is your change after you pay with a $5 bill?

Round each number to the nearest 10 and add the rounded numbers.

35 + 86

40 + 90 = _____

19 + 33

_____ + _____ = _____

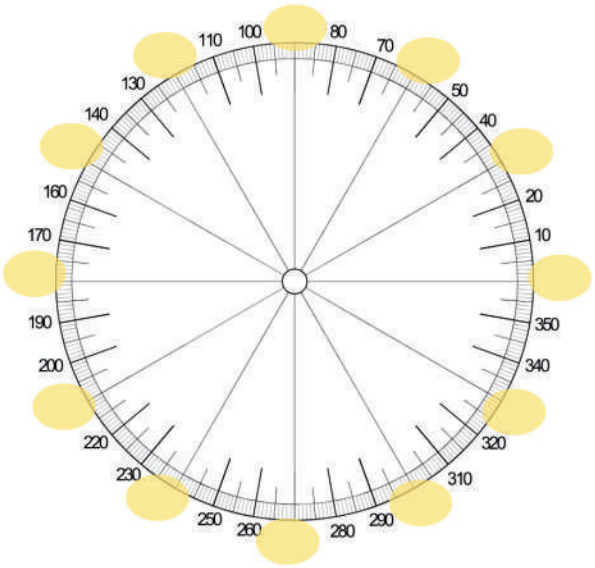
27 + 55

_____ + _____ = _____

51 + 68

_____ + _____ = _____

Use your reference pages to fill in the missing angles (the yellow ovals).



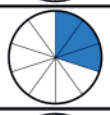
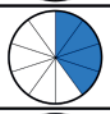
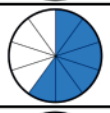
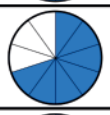
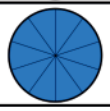
Draw:

Right Angle	Line Segment
Reflex Angle	Ray
Obtuse Angle	Line
Straight Angle	Acute Angle

Library story time starts at 10:30 AM. The clock below shows the current time. It takes 20 minutes to drive to the library. How much time do you have before you have to leave?

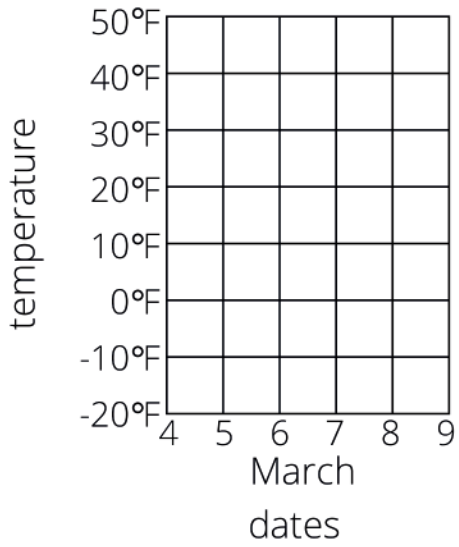
Date _____

Complete this table. Leave the percent column empty for now.

Visual Fraction	Numerical Fraction	Percent	Decimal
	$\frac{1}{10}$	10%	0.1
			
			
			
			
			
			
			
			
			

Draw a line graph to show the following temperatures.

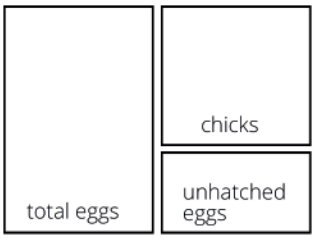
DATE	TEMP.
March 4	15°F
March 5	8°F
March 6	-6°F
March 7	12°F
March 8	-4°F
March 9	5°F



Why do we use line graphs to show temperature?

_____

Your family hatched chicks from eggs. You incubated two dozen eggs. Not all of them hatched. Eight more eggs hatched than didn't. How many chicks do you have?



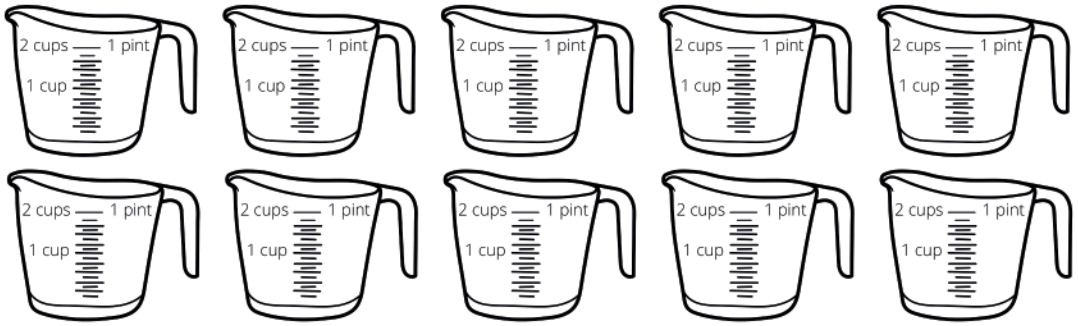
If it takes you two and a half hours to drive to the airport and you have to be there by 7:00 am, what time do you need to leave home?

There are three tennis balls in a small package. The medium-sized package has twice that amount. The largest package has five times as many balls as the small size.

How many tennis balls are in the medium-sized package? _____

How many tennis balls are in the largest package? _____

You have one gallon of water. Use a blue crayon to "fill" as many of these containers as you can before you run out of water. Use all of the water.



What fraction of the containers did you "fill"?

What decimal is that fraction?

You are having a pizza party with 13 friends, plus yourself. You figure each person will want to eat 4 slices.

How many slices do you need? _____ _____ (# of people) x _____ (# of slices per person) = _____ (slices needed)

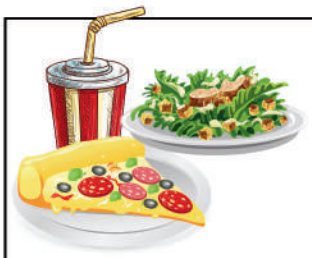
Each pizza has eight slices. How many pizzas do you need?

$\frac{56}{8} =$ improper fraction $\qquad 56 \div 8 = \qquad 8\overline{)56}$

Improper fractions have a larger numerator than denominator. They should be written as a whole number or a mixed number instead of as a top heavy (larger numerator) fraction. This one is a WHOLE number.

Date _____

Use the menu prices to add up the cost of each meal. Find each customer's change if they pay with a $10.00 bill.



FOOD TRUCK MENU

Hamburger	$3.69
Hot dog	$1.50
Pizza	$2.80
French Fries	$1.75
Salad	$1.25
Apple Slices	$1.88
Soda	$1.75
Ice cream	$2.79

$4\overline{)3813}$ R ☐

Remainder ☐

$7\overline{)5125}$ R ☐

Remainder ☐

$3\overline{)6399}$ R ☐

Remainder ☐

Check your division. Multiply each quotient by its divisor.

x 4

add the remainder _____

x 7

add the remainder _____

x 3

add the remainder _____

Re-write and stack the numbers, lining up the decimal points. Find the sum.

4.3 + 9.1 = _____ 7.5 + 2.55 = _____ 1.75 + 2.3 = _____

5.02 + 3.4 = _____ 1.43 + 2.1 = _____ 2.18 + 1.22 = _____

1.14 + 1.16 = _____ 2.7 + 1.75 = _____ 1.6 + 1.8 = _____

Fractions LCD ____	$\frac{1}{2}$	$\frac{1}{18}$	$\frac{7}{9}$	$\frac{2}{3}$	$\frac{5}{6}$
Equivalent Fractions with LCD					
Order fractions least to greatest					

Fractions LCD ____	$\frac{2}{3}$	$\frac{4}{7}$	$\frac{1}{3}$	$\frac{11}{21}$	$\frac{6}{7}$
Equivalent Fractions with LCD					
Order fractions least to greatest					

If you paid for each of these items with $5.00, how much change would you receive? Draw the bills and coins you would use to make that amount.

Use the correct comparison symbol (<, >, =).

358 - 129 ◯ 74 + 57

$\sqrt{81}$ - 1 ◯ 6 x 3

28/4 ◯ 56/8

72/9 ◯ $\sqrt{64}$

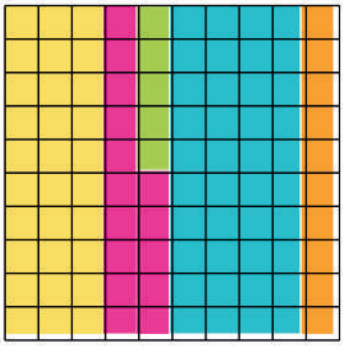
one half ◯ three fourths

seconds in one minute ◯ cups in one gallon

Date _____

Complete the percent column in the table on page 148.

This grid has 100 squares. What percentage is each color?



percent	fraction	decimal
30%	$\frac{30}{100}$	0.3

percent	fraction	decimal

Add all of the percentages.

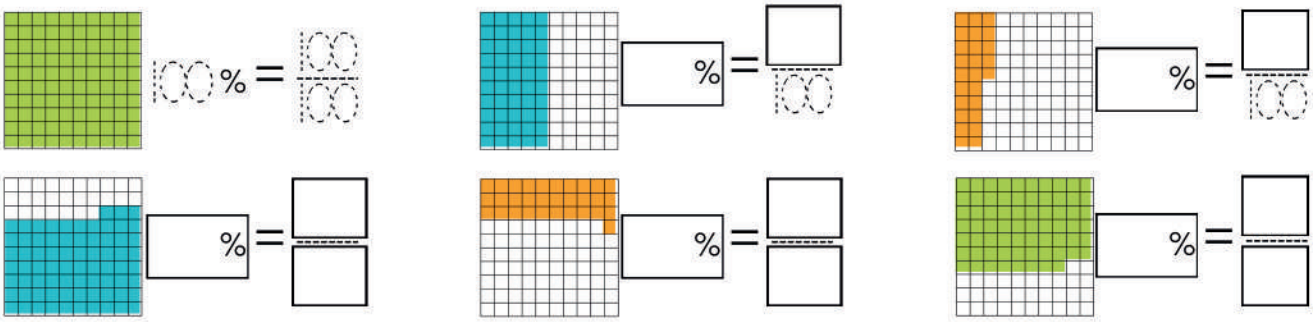
30 + ☐ + ☐ + ☐ + ☐ =

Why do the percentages of each color all add up to 100%? _____

_____

Do percentages always add up to 100%? _____

Each block has 100 squares. Color the squares to illustrate each percentage equation and fill in any missing parts of each equation.



Writing Fractions:

What fractional part of this word is vowels?

What fractional part of this word is consonants?

MATH

What fractional part of this word is vowels?

What fractional part of this word is consonants?

GAMES

Send each number from the IN column through the function machine. Figure out the rule for each function and complete the OUT column of the function table.

These two are hard. The rule has TWO steps. Think double.

rule: −4

IN	OUT
11	7
19	15
24	20
4	0
50	46
16	12

rule:

IN	OUT
9	36
12	48
8	32
17	
15	
5	

rule:

IN	OUT
3	7
7	15
4	9
8	
10	
5	

rule:

IN	OUT
10	19
12	23
7	13
6	
8	
3	

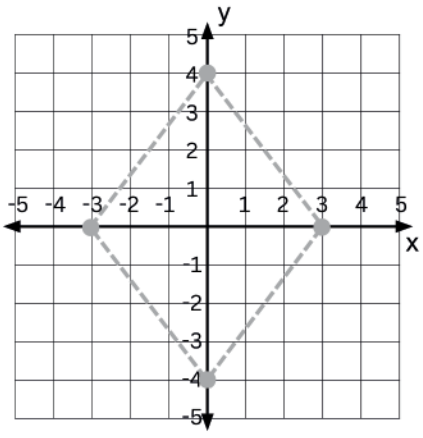
rule:

IN	OUT
12	36
1	3
5	15
0	
7	
3	

You have seven quarters and your brother has nine quarters. How many quarters do you have altogether? Write a number sentence.

How much money is that?

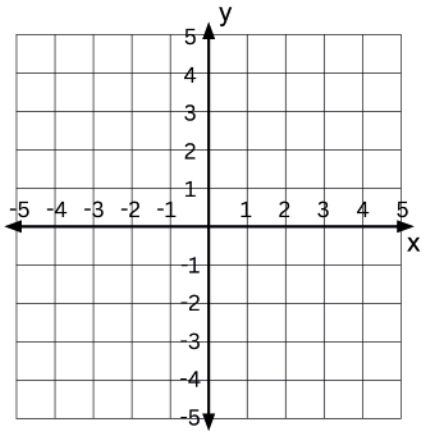
Let's draw quadrilaterals. Graph the points listed below each coordinate plane, then connect the dots in the order they are given.



1.(0, -4) 3.(0, 4)
2.(3, 0) 4.(-3, 0)
5.(0, -4)

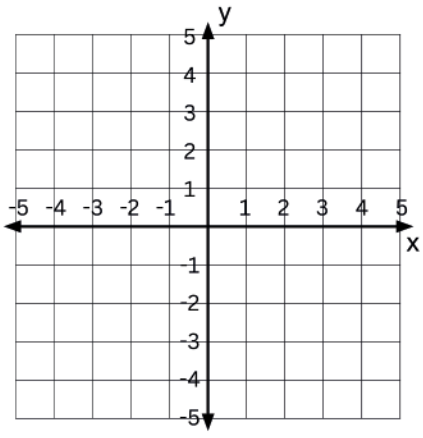
Shape name:

rhombus



1.(-5, -3) 3.(2, 3)
2.(5, -3) 4.(-5, 3)
5.(-5, -3)

Shape name:



1.(-5, -5) 3.(5, 5)
2.(5, -5) 4.(-5, 5)
5.(-5, -5)

Shape name:

Date _____

Solve:

2 + 9 x 3 - 8 = _____

4 - 15 ÷ 3 + 1 = _____

5 x 5 - 4 x 4 = _____

Order of Operations (PEMDAS):

1. **P**arentheses
2. **E**xponents
3. **M**ultiply & **D**ivide from left to right
4. **A**dd & **S**ubtract from left to right

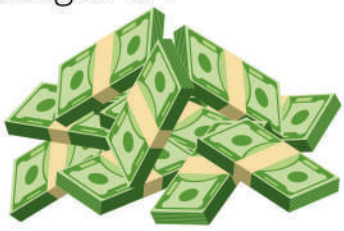
Write operators (x, +, -) in all of the empty squares to make each number sentence true. Remember to apply the Order of Operations, PEMDAS.

3	×	4	+	6	=	18
5		1		3	=	2
2		4		2	=	10
=		=		=		=
6		8		0	=	6

8	×	2	-	5	=	11
3		2		1	=	5
1		3		6	=	9
=		=		=		=
5		3		0	=	15

You earned $125.50 doing yard work for one neighbor and $178.50 doing yard work for another neighbor. How much did you earn altogether?

$$\begin{array}{r} 125.50 \\ +\ 178.50 \\ \hline \end{array}$$



Add or subtract these decimals. Stack the numbers and line the digits up by decimals.

1.5 + 0.34 = _____

2.75 + 2.25 = _____

3.7 - 1.31 = _____

1.1 + 4.6 = _____

3.8 - 2.2 = _____

7.6 + 2.3 = _____

8.6 - 1.12 = _____

9.9 - 8.1 = _____

8.4 + 5.14 = _____

Find the missing decimal addends.

1.5 + ☐ = 3.7

7.5 + ☐ = 10

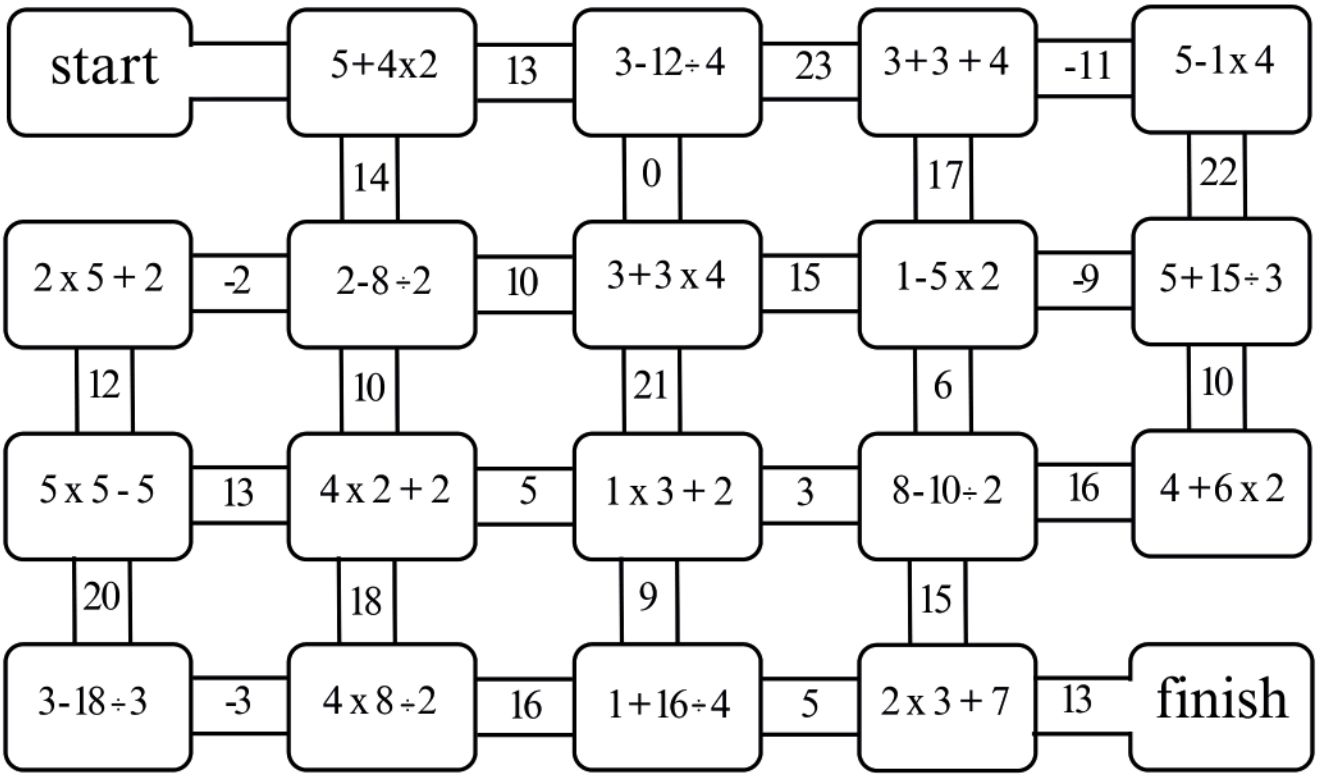
☐ + 2.2 = 5

☐ + 3.3 = 7.5

3.7 + ☐ = 6.3

4.1 + ☐ = 8.9

Choose the correct answer to each problem to find your way through this maze.



Find a common denominator, then add and subtract the fractions.

$\frac{1}{2} - \frac{1}{4} =$ $\frac{2}{4}$

$\frac{1}{4} + \frac{5}{8} =$

$\frac{2}{3} - \frac{3}{6} =$

$\frac{1}{2} + \frac{1}{3} =$

$\frac{1}{3} + \frac{1}{4} =$

$\frac{5}{6} - \frac{3}{12} =$

$\frac{1}{2} + \frac{3}{6} =$

$\frac{7}{8} - \frac{1}{2} =$

$\frac{1}{3} - \frac{1}{12} =$

$\frac{3}{4} - \frac{3}{12} =$

$\frac{3}{4} - \frac{3}{6} =$

$\frac{2}{2} - \frac{1}{3} =$

Date _____

Solve using the Order of Operations (PEMDAS):

$8 \div 4 \times 9 - 3 =$ _____

$1 - 16 \div 4 + 3 =$ _____

$5 \times 5 - 4 \times 4 =$ _____

$5 \times (5 - 4) \times 4 =$ _____

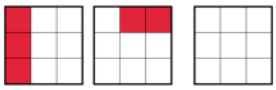
$3 \times 7 - 3 \times 1 =$ _____

$3 + 7 \times 3 + 1 =$ _____

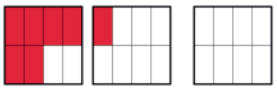
$(3 + 7) \times (3 + 1) =$ _____

$(3 + 7) + 3 \times 1 =$ _____

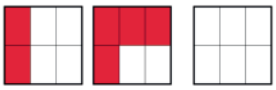
Add the fractions and color the squares to match. Remember to simplify the sum!



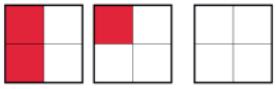
$\frac{1}{3} + \frac{2}{9} = \frac{5}{9}$



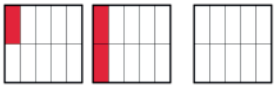
$\frac{3}{4} + \frac{1}{8} =$



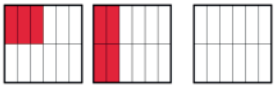
$\frac{1}{3} + \frac{4}{6} =$



$\frac{1}{2} + \frac{1}{4} =$



$\frac{1}{10} + \frac{1}{5} =$



$\frac{1}{4} + \frac{1}{3} =$

Add or subtract these percentages.

$14\% + 25\% =$ _____

$31\% + 18\% =$ _____

$97\% - 79\% =$ _____

$100\% - 99\% =$ _____

$11\% + 54\% =$ _____

$65\% - 22\% =$ _____

If your grandma was born in 1952 how old is she?

You practiced the piano for half an hour every day and you have a lesson for one hour each week. How much time each week do you spend playing the piano?

Let's paint your bedroom door. What color would you like? _____

Use a tape measure to measure your door:

length: width: area:

Each pint of paint will cover 1,500 square inches and costs $8.95.
How many pints of paint will you need?

How much will the paint cost?

If you pay with a $20 bill, how much change will you get? Draw the coins and bills.

Write operators (x, ÷, +, -) in all of the empty squares to make each number sentence true. Remember to apply the Order of Operations, PEMDAS.

9	÷	3	+	5	=	8
9		3		2	=	4
6		8		4	=	8
=		=		=		=
7		1		3	=	4

7	-	6	+	2	=	3
3		12		4	=	6
4		3		4	=	8
=		=		=		=
6		2		2	=	10

What will be the date of your next birthday? _____

How many days is that from today?_____

What will be the date of your fifteenth birthday? _____

Date _____

Solve using the Order of Operations (PEMDAS):

$5 \times (5 - 4) \times 4 =$ _____

$5 \times 5(4 - 4) =$ _____

$5(5 - 4) \times 4 =$ _____

$5(5 \times 4) - 4 =$ _____

$3^2 - 6(10-9) + 12 \div 2 =$ _____

$3 \times 6 - 3 \times 6 =$ _____

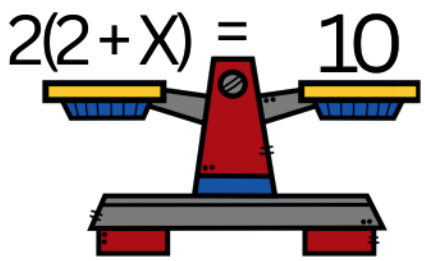
$3 \times (6 - 3) \times 6 =$ _____

$3(6 - 3) \times 6 =$ _____

$3 \times 6(3 \times 6) =$ _____

$(2^2 + 4) \div 2^3 + 1 =$ _____

Solve for x: (get x by itself!)



Step 1: divide BOTH sides of the equation by 2

Step 2: subtract 2 from BOTH sides of the equation

Step 3: Check your answer by replacing X with the answer.

$\frac{2(2+X)}{2} = \frac{10}{2}$

$(2+X) = 5$ (−2 −2)

$X = 3$

$2(2+3) = 10$

true!

Solve for the variable:

$X + 8 = 10$ X = _____

$(X + 6) \div 3 = 5$ X = _____

$2 + 3(8 - X) = 11$ X = _____

$4(5 - X) = 12$ X = _____

$7X = 21$ X = _____

$2(X + 5) - 5 = 17$ X = _____

The operators are missing! Insert the correct operator (+, -, x, ÷) in each yellow circle to make the number sentence true. All answers have been simplified.

$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

$\frac{2}{4} \div \frac{3}{4} = \frac{6}{16} = \frac{3}{8}$

$\frac{2}{3} \times \frac{3}{4} = \frac{8}{9}$

$\frac{2}{5} \div \frac{3}{5} = \frac{10}{15} = \frac{2}{3}$

$\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$

$\frac{1}{4} \times \frac{2}{3} = \frac{3}{8}$

$\frac{2}{5} \times \frac{1}{3} = \frac{2}{15}$

$\frac{2}{3} \div \frac{1}{3} = \frac{3}{3} = 1$

$\frac{1}{2} + \frac{1}{5} = \frac{7}{10}$

$\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$

$\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$

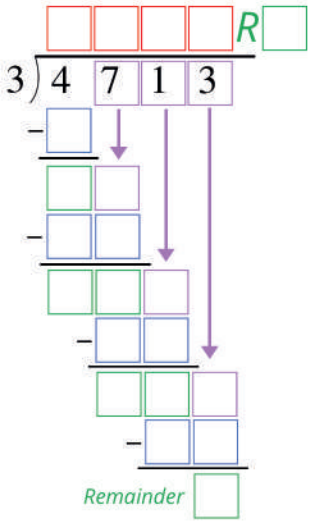
$\frac{3}{4} \div \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$

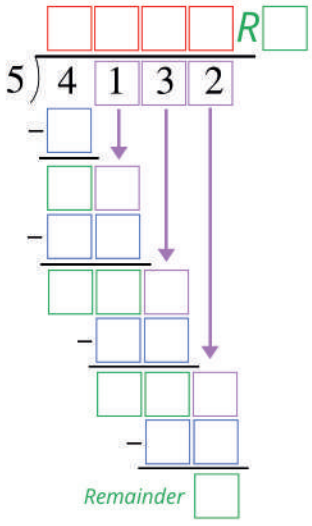
Use the menu prices to add up the cost of each order. Find each customer's change if they pay with a $10.00 bill.

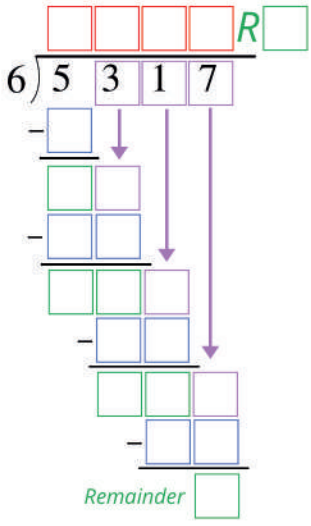
jamaica and 2 tacos

horchata and two quesadillas

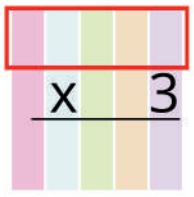
jamaica, torta and 2 tamales



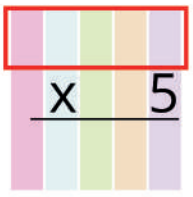




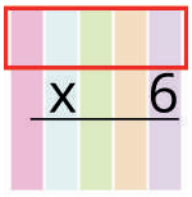
Check your division. Multiply each quotient by its divisor.



add the remainder _____



add the remainder _____



add the remainder _____

Date _____

Solve using the Order of Operations (PEMDAS):

$4^2 \div 2(3 - 1) \times \sqrt{9} =$ _____

$5^2 - 2(9 - \sqrt{16}) \div 2 =$ _____

$3 + 5^2 - \sqrt{81} =$ _____

$2 + (6^2 - 3) \div 3 =$ _____

$8(5 + 4) \div 12 =$ _____

$7(5 - 2) \div 3 =$ _____

$2(5 \times 3 - 2^2 \times 3) - 4 =$ _____

$\sqrt{3 \times 3 + 4^2} =$ _____

$4^2 - 6 \times 2 + 14 \div 2 =$ _____

$(8 + 4) \div 2 + 1^3 =$ _____

Subtract the fractions and color the squares to match. Remember to simplify the difference!

$\frac{1}{3} - \frac{2}{9} = \frac{1}{9}$

$\frac{3}{4} - \frac{3}{8} =$

$\frac{2}{3} - \frac{3}{6} =$

$\frac{1}{2} - \frac{1}{4} =$

$\frac{4}{5} - \frac{3}{10} =$

$\frac{1}{3} - \frac{1}{4} =$

Measure this rectangle with a ruler, using inches.

length: width:

perimeter: area:

Divide the rectangle into eighths. Shade two parts. What fractional part is shaded?

What fractional part is not shaded?

divisor quotient

$2 \overline{)\,5\,3\,8\,9}$ R ___ Remainder ___

$9 \overline{)\,3\,1\,4\,6}$ R ___ Remainder ___

$5 \overline{)\,4\,8\,3\,7}$ R ___ Remainder ___

Multiply the QUOTIENT and divisor from each problem above to check your division.

quotient × 2 ← divisor

add the remainder ________

quotient × 9

add the remainder ________

quotient × 5

add the remainder ________

Find the missing fractional addends to make each number sentence true.

$\frac{1}{2}$ (changed to $\frac{2}{4}$) $+ \square = \frac{3}{4}$ $\qquad \square + \frac{1}{4} = \frac{2}{4}$ $\qquad \frac{2}{3} + \square = \frac{3}{3}$ $=1$ $\qquad \square + \frac{1}{3}$ (changed to $\frac{2}{6}$) $= \frac{5}{6}$

$\square + \frac{5}{8} = \frac{7}{8}$ $\qquad \frac{3}{6} + \square = \frac{5}{6}$ $\qquad \square + \frac{1}{3} = \frac{1}{2}$ $\qquad \frac{1}{12} + \square = \frac{1}{4}$

$\frac{3}{12} + \square = \frac{1}{2}$ $\qquad \square + \frac{3}{10} = \frac{4}{5}$ $\qquad \frac{2}{5} + \square = \frac{5}{5}$ $=1$ $\qquad \square + \frac{3}{5} = \frac{9}{10}$