Product Puzzlers. Fill in each square with factors such that the product of each set of factors, horizontally and vertically, are correct. (2.22) ← check Level 2 Lesson 22 if you need a review

7	140	42
CO	00	24
56	18	

2		12
		49
14	42	

6		30
		56
42	40	'

9		27
		42
54	21	

6		12
		24
48	6	

3		15
		42
21	30	•

12		72
		56
84	48	•

7		21
		70
70	21	

12		96
		18
108	16	

9		63
		8
18	28	•

7		56
		42
42	56	•

8		56
		72
72	56	

5		25
		24
15	40	•

4		20
		12
12	20	•

6		54
		6
18	18	

#2 Date

Find the sums.

$$3 + 4 =$$

$$3+3+2=$$
 $7+6+1=$

$$3 + 8 + 4 =$$

$$6 + 4 =$$

$$9+7=$$
 $6+4=$ $8+5+6=$ $2+9+6=$

$$5 + 5 =$$

Find the differences.

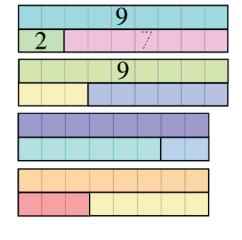
$$8-4=$$
 $6-2=$ $10-1-4=$ $9-7-2=$

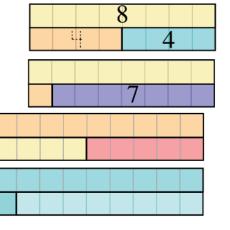
$$9-3=$$
 $10-4=$ $10-8-2=$ $7-3-1=$

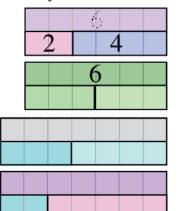
$$7-7=$$
 $8-5=$ $8-5-2=$ $10-2-4=$

check Level 1 Lesson 21 if you need a review

Find the missing PART and/or WHOLE in each addition fact family. (1.21)



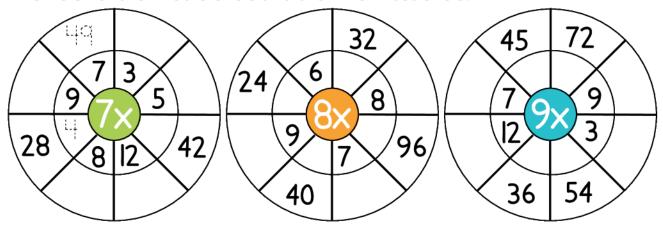




Fill in the missing addends or sum to complete each number sentence. (3.36)

$$- + 0 = 9$$

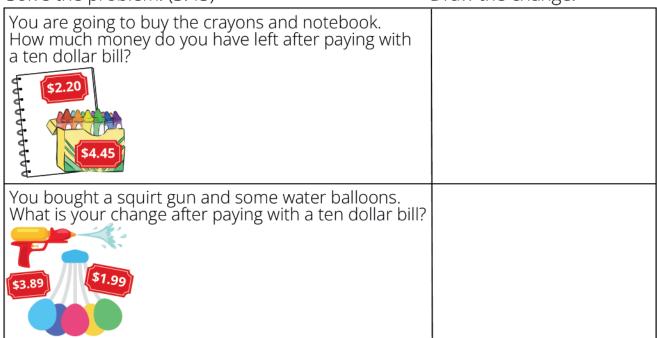
Fill in the blanks of these multiplication circles so that the outer circle is the PRODUCT of the middle circle and the innermost circle.



check Level 3 Lesson 45 if you need a review

Solve the problem. (3.45)

Draw the change.



Show 4 ways to make 79¢.

	,	
		total coins
00		 7

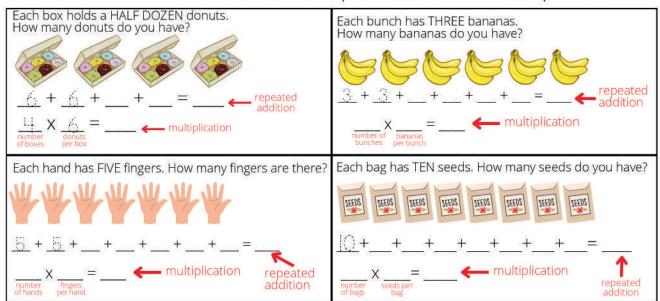
Show 4 ways to make 56¢.



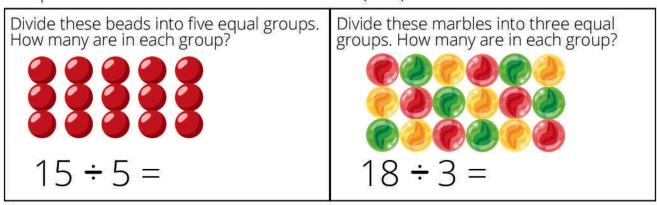
Show 4 ways to make 88¢.

		total coins

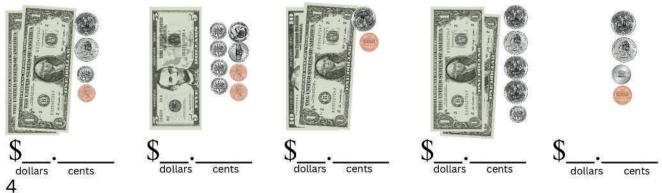
Write a number sentence for each box as repeated addition then multiplication.



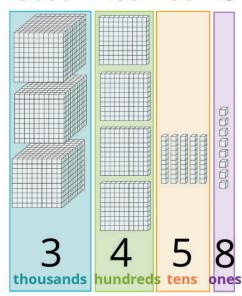
Complete the number sentence for each box. (2.43)



How much money is this? (2.51) check Level 2 Lesson 51 flyou need a review



Three thousand four hundred fifty-eight (3.1)



All about the number 3,458:

- 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? _____

Use the number line to find each sum or difference. (3.58)

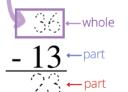


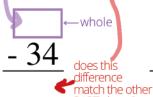
Fill in the missing parts to complete each number sentence. (3.36)

Find the sums without regrouping.

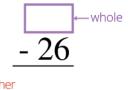
$$\begin{array}{c} 23 \leftarrow \mathsf{part} \\ + 13 \leftarrow \mathsf{part} \\ \hline \\ & \leftarrow \mathsf{whole} \end{array}$$

Check each sum by subtracting one PART from the WHOLE. The DIFFERENCE should be the other PART.



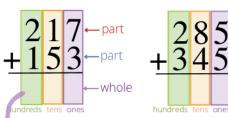


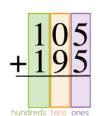
PART above?



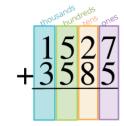


Find the sums with regrouping.

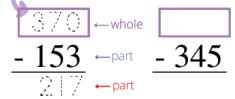








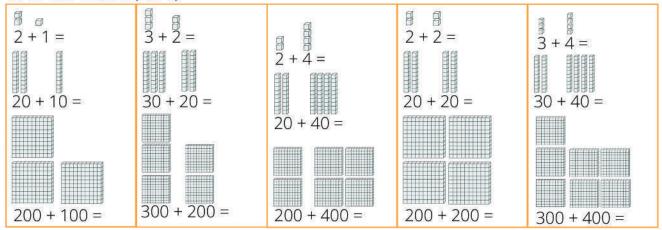
Use subtraction to check the addition above.



Trace the existing numbers, fill in the missing numbers and color the squares with EVEN numbers yellow. (2.4)

			500	502	
505					

Find the sums. (2.10)

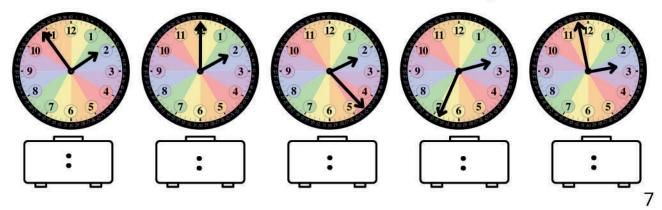


Find the sums. (2.10)

Complete these Multiplication Fact Family houses. (2.36)



What time is shown on these clocks? Write the time on the digital clock below. (2.9)

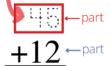


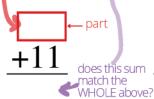
← part

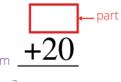
Find the DIFFERENCE without regrouping.

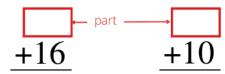
$$\begin{array}{c} 57 \leftarrow \text{whole} \\ -12 \leftarrow \text{part} \end{array}$$

Check each difference by adding the two PARTS. The SUM should be the WHOLE.

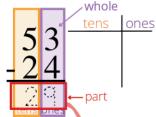


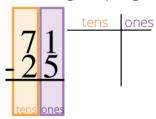


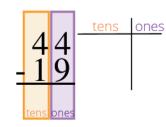


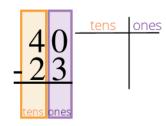


Find the differences with regrouping.

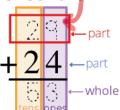


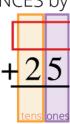


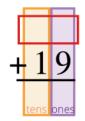


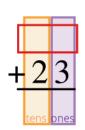


Check the DIFFERENCES by adding.



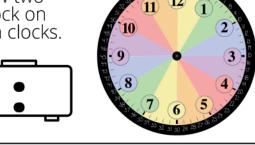




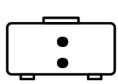


Think of QUARTER BEFORE a time as moving the hands BACKWARD 15 minutes. (1.12) and (1.14) check Level 1 Lessons 12 and 14 if you need a review

Show two o'clock on both clocks.



Show **quarter before two** on these clocks.





Trace the existing numbers, fill in the missing numbers and color the squares with EVEN numbers yellow. (2.4)

			100	IOI	
					112

check Level 1 Lesson 48 if you need a review

Draw lines to match the fractions. (1.48)

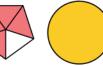












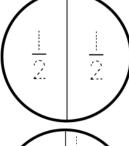


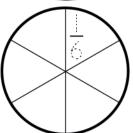


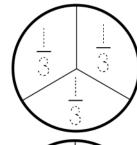


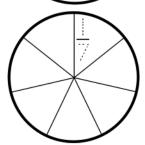


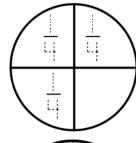
Label each piece of each circle with the correct fraction. Remember, the DENOMINATOR (the bottom of each fraction) is the NUMBER of pieces the shape is divided into and the top of each fraction will be one. (2.45)

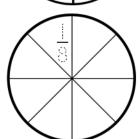


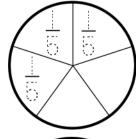


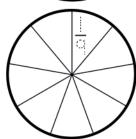












#6

Date

Solve.

$$(8 + 9) - (1 + 4) =$$

$$3^2 - 5 =$$

$$1 + 9 \times 4 =$$

$$12 \div 2 + 3 \times 3 =$$

$$6^2 \div 12 =$$

Order of Operations (PEMDAS):

- 1. Parentheses
- 2. Exponents
- 3. Multiply & Divide from left to right
- 4. Add & Subtract from left to right

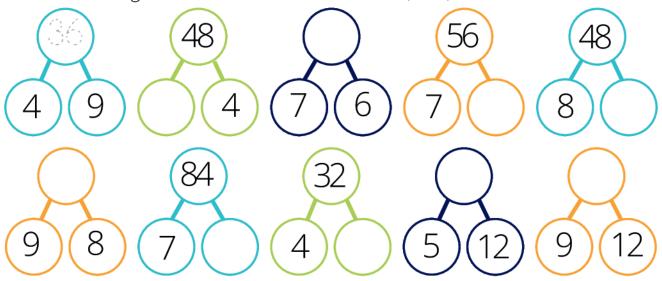
Write operators $(x, \div, +, -)$ in all of the empty squares to make each number sentence true. Remember to apply the Order of Operations, PEMDAS. (3.83)

7	Х	2	ı	4	Ш	10
2		1		3	=	5
2		4		3	=	5
=		=				=
12		6		4	Ш	10

9	ı	3	Х	2		3
4		2		7	=	1
3		4		6	=	2
=		=		=		=
12		2		3	Ш	6

Find the missing addends. (3.36)

Find the missing member of each FACT FAMILY. (2.36)



Put these numbers in order from smallest to largest. (3.2)

175	517	715	157	smallest largest
98	890	89	980	smallest largest
102	120	118 201	210	1
910	190	109	901	smallest largest

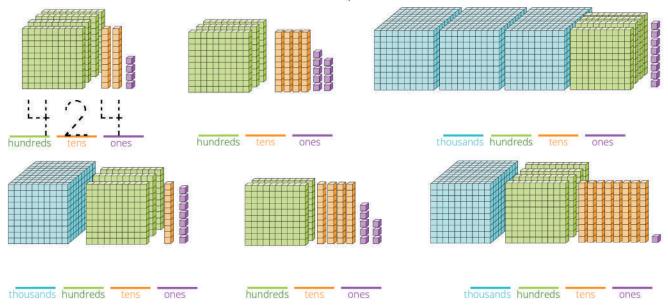
Fill in the blanks to make these number sentences true. (3.41)

$$1^{2} = _{x} = _{x} = _{z} =$$

#7

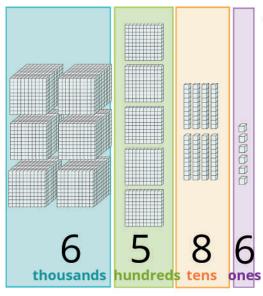
Date

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



Draw two parallel lines. Then draw a line that makes right angles when it crosses both lines. (3.48)

Draw two oblique lines that cross. Label all 4 angles you made acute or obtuse.



All about the number 6,586:

- 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? _____

6000 + 500 + 80 + 6

Write the name of this number in words: _____

Solve using the Order of Operations (PEMDAS). (3.83)

$$4 \div 2(8 - 6) = ____$$

$$4^2 - \sqrt{36} =$$

$$3^2 - \sqrt{81} =$$

$$8(5 + 4) \div 12 =$$

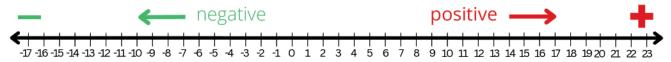
$$8(5-1) \div 2 =$$

$$2(5 \times 3) \div 6 =$$

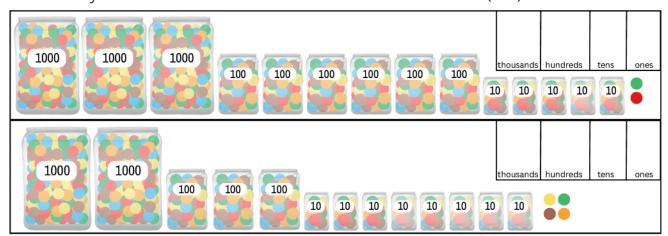
$$8^2$$
 - 6 x $\sqrt{49}$ = ____

$$(2^3 + 4) \div 2 =$$

Use the number line to find each sum or difference. (3.58)



How many chocolate candies? Read each number aloud. (2.7)



(3.13) Your mom cut an orange in half. The she cut each half in half. You ate three of the orange pieces. What fraction did you eat?

What fraction is left?

Complete each 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
7,348	Seven thousand, three hundred forty-eight
Expanded Form	Base Ten Form
7,000 + 300 + 40 + 8	

Standard Form	Word Form
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4 1 0 0	
4,109	
1,200	
Expanded Form	Base Ten Form
Lxpariaea i oiiii	base reiri oiiii

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

Word Form	Expanded Form	Standard Form
Twenty-two thousand, one hundred fifty- seven	20,000+2,000+100+50+7	22,157
Fifty thousand, nine hundred one		50,901
	1,000,000 + 40,000 + 5	1,040,005
Twelve thousand eleven		12,011
Fifty-nine thousand	50,000 + 9,000	
Three million, nine hundred		
	20,000,000 + 5,000,000 + 20,000 + 5,000	
	10,000,000 + 4,000,000 + 100,000 + 10,000 + 9,000 + 60 + 5	
One hundred three million		
		9,900,000

Use the tables below to answer the questions. (3.24)

State	Area
Connecticut	5,543
Delaware	2,489
New Jersey	8,721
New Hampshire	9,349
Rhode Island	1,545

Which of these states has the largest area? _____ Which of these states has the smallest area? _____ Order these states from largest to smallest: _____

Which of these states has the largest area? _____ Which of these states has the smallest area? _____ Order these states from largest to smallest: _____

State	Area
California	163,696
Texas	268,580
Montana	147,042
Alaska	663,267
New Mexico	121,589

Solve using the Order of Operations (PEMDAS). (3.83)

$$9 + 18 \div 3 =$$

$$2 + 8^2 - 4^2 =$$

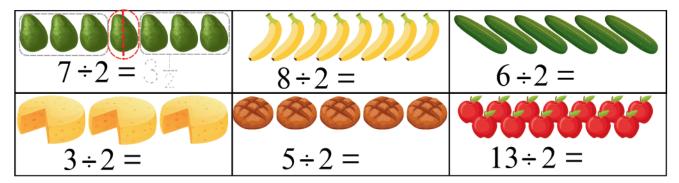
$$5^2 - 3(8 - 1) =$$

$$6 + 2 \times 3 =$$

Trace the existing numbers, fill in the missing numbers and color the squares with EVEN numbers yellow. (2.6)

995			1000		

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. Now look at the boxes with an ODD dividend. What's the pattern?

Write operators $(x, \div, +, -)$ in all of the empty squares to make each number sentence true. Remember to apply the Order of Operations, PEMDAS. (3.83)

6	-	3	Х	2	=	0
5		1		2	=	4
10		2		ന	=	2
=		=				=
3		2		3	=	2

	٠.,	,			'
8		4	1	Ш	2
2		2	2	Ш	8
3		3	1	Ш	2
=		=	=		=
2		5	4	=	6

5	0	6	=	6
5	7	10	П	2
5	4	2	=	3
= 5	=	=		=
5	4	8	=	9

What is three squared plus five?

The square root of 81 is how much less than five squared?

Standard Form	Word Form
1,002	
Expanded Form	Base Ten Form

Standard Form	Word Form
5,680	
Expanded Form	Base Ten Form

Let's skip count using place value. (3.34)

Skip count by 2.

112 114 116 118 ____ __ ___ ___ ___

Skip count by 20. (2 in the tens place)

112 132 152 172 192 212 ____ ___ ___

Skip count by 200. (2 in the hundreds place)

112 312 512 ____ 1,112 1,312 ___ ___

Skip count by 2000. (2 in the thousands place)

112 2112 4112 ____ 10,112 ____ ___

The three longest rivers in the world are the Yangtze, the Amazon, and the Nile. The Yangtze is 6,300 kilometers long. The Amazon is 6,992 kilometers long. The Nile is 6,853 kilometers long. Order these rivers from longest to shortest. (3.24)

Solve using the Order of Operations (PEMDAS). (3.83)

$$8 - 2 \times 1 + 3 =$$

$$(8 - 2) \times (1 + 3) =$$

$$(2 + 4) \times (6 - 3) =$$

$$2^{2}$$
- (3 + 5) = ____

$$3^2$$
 - 2 x 8 = ____

Trace then write each term, then draw a line to match each term to its definition.

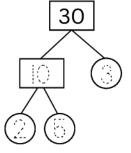
- factor prime number composite number operators
- Any symbol that indicates an operation to be performed.
- Any positive number with more than two factors.
- A number that divides the given number evenly or exactly, leaving no remainder.
- The position of each digit in a number determines its value.
- This can only be divided by itself and one.

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

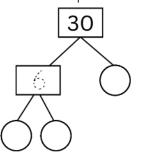
- 18: ____, ____, ____
- 5: ____, ____
- 20: ____, ____, ____
- 10: ____, ____, ____

- 11: ____, ____
- 4: ____, ____, ____
- 9: ____, ____,
- 6: ____, ____, ____

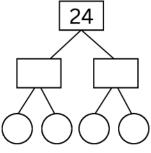
Factor the number in the top box of each factor tree. The composite numbers go in the rectangles and the prime numbers go in the circles. (3.65)



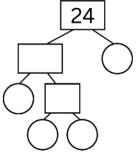
prime factorization:



prime factorization:



prime factorization:



prime factorization:

The digit in the ones' place is 8. The digit in the tens' place is two fewer than the digit in the ones' place. The digit in the hundreds place is half the digit in the ones place.

The digit in the tens place is 6. The digit in the ones place is half of the digit in the tens place. The number is between 200 and 300. Find the missing factors. (3.36)

$$x = 35$$
 $x = 35$
 $x = 63$
 $x = 72$
 $x = 32$
 $x = 36$
 $x = 36$
 $x = 36$
 $x = 40$
 $x = 36$
 $x = 36$

What fraction of the number sentences above have an ODD product? What fraction of the number sentences above have an EVEN product?

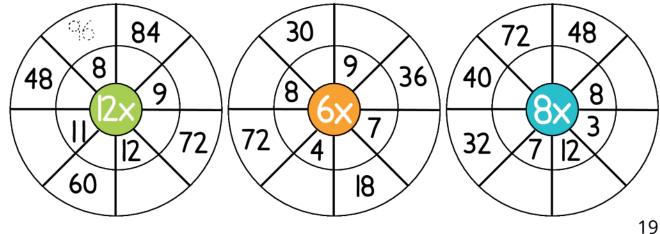
Person	Steps
Mom	21,543
Dad	22,489
You	28,721
Sister	29,349
Brother	11,465

Your family spent the day at an amusement park. (3.25)
Who took the most steps? ______
Who took the fewest steps? _____
Order your family members from most steps taken to fewest steps taken: _____

How many more steps did you take than your brother? _____

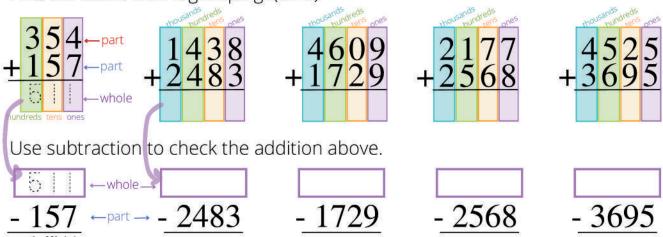
How many more steps did your sister take than you? _____

Fill in the blanks of these multiplication circles so that the outer circle is the PRODUCT of the middle circle and the innermost circle. (2.36)



#11 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: Four or less? Let it rest. Five or more? Let it soar. * 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 14 25 26 27 28 29 30 31 32 33 34 35 38 37 38 39 40 41 42 43 44 45 46 47 48 48 50 51 52 53 54 55 58 57 58 58 60 Round to the nearest HUNDRED: 119 101 275 354 - 00 Four or less? Let the 1 res 191 205 ____ 149 150 257 703 Round to the nearest THOUSAND: 1433 1386 2756 Four or less? Let the 1 rest. 3050 8000 Four or less? Let the 3 rest. 2014 _____ 1649 2810 1101 _____ 2128 1254 0 100 200 300 400 500 600 700 800 900 1000 1200 1300 1400 1500 1600 1700 1800 1900 2000 2300 2400 2500 2600 2700 2800 2900 1551 Round to the nearest TEN Round to the nearest TEN Round to the nearest HUNDRED _____ Round to the nearest HUNDRED ______ Round to the nearest THOUSAND _____ Round to the nearest THOUSAND ___ 20

Find the sums with regrouping. (2.12)



Change each addition number sentence to a multiplication number sentence. (2.20)

$$8 + 8 + 8 + 8 + 8 + 8 = 48$$

$$12 + 12 + 12 + 12 = 48$$

WORD PROBLEMS

$$9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 = 72$$

quantity means (5 + 2)

What is three times the quantity of five plus two?

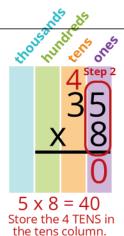
Three squared is how much more than the square root of 49?

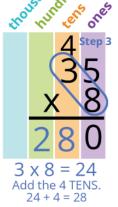
City	Population	These are the five cities in the United States with the largest populations. (3.25)		
Chicago	2,746,388	Which city has the largest population?		
Los Angeles	3,898,747	Which city has the smallest population?		
Phoenix	1,644,409	Order these cities from the smallest population to the		
New York City	8,804,190	largest:		
Houston	2,304,580			

How many more people does Houston have than Phoenix?_

Multiplication Algorithm for 1-digit Multipliers:

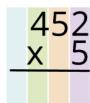
- 1. Stack the numbers with the smaller number (the multiplier) on the bottom, lining up digits by place value.
- 2. Multiply the multiplier by the number in the ones place of the top number, writing the answer under the line. If the product of these two numbers is greater than nine, move the TEN over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





Find the products.

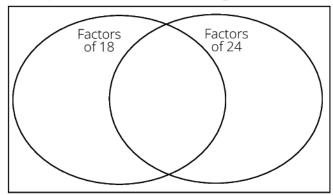


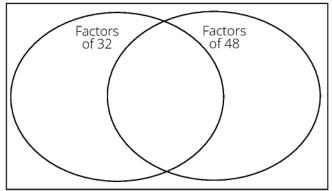


	.,		4
_	<u>X</u>	_	<u>_</u>

1 X		8 4

Complete these Venn Diagrams. (3.30)





Order these numbers from smallest to largest. (3.2)					
8,674	8,476	8,467	8,647		
smallest			largest		
1,029	1,092	1,290	1,920		
smallest			largest		
3,051	3,501	3,015	3,105		
smallest			largest		

Compare these	e numbers (<, >, =)
1,375	1,357
8,243	8,245
3,417	3,714
79,010	79,001
17,397	17,391
25,111	21,111

Write the word form. (4.8)

12,573 _____

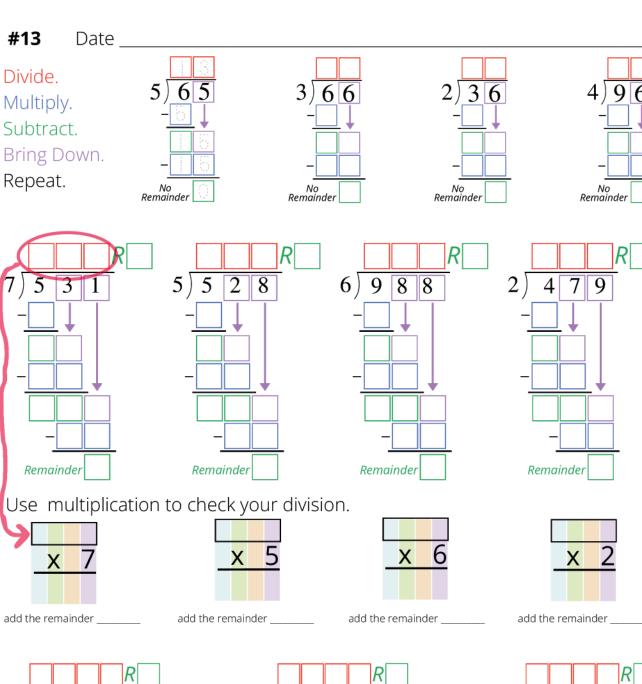
93,437 _____

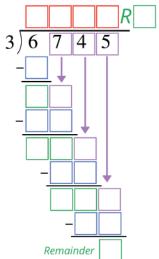
18,001 _____

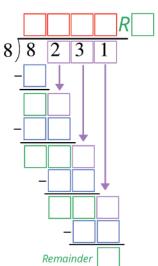
Write the standard form. (4.8)

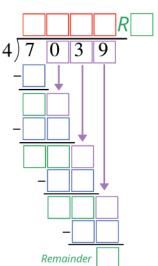
Fifteen million, four hundred thirty-nine thousand, eleven _____

One hundred seventy-eight thousand, thirty-five _____

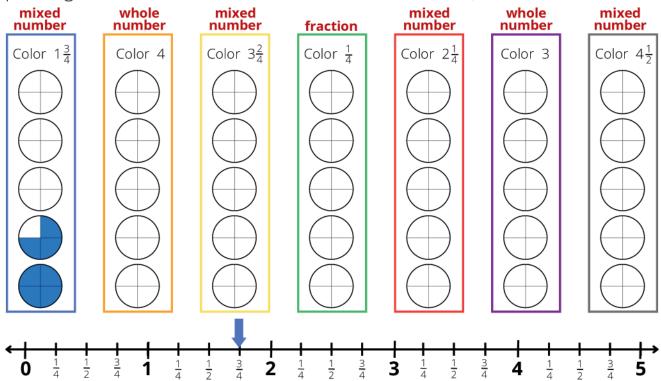








Color the number in each colored rectangle. Then draw an arrow that color pointing to the number on the number line below. (3.16)

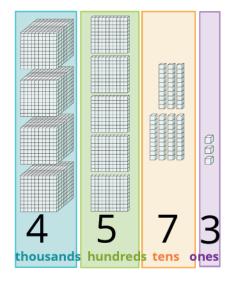


From the problem above:

List the mixed numbers _____

List the fractions

List the whole numbers _____



All about the number 4,573. (4.7)

- 1. What is the value of the 3? _____
- 2. What is the value of the 5?
- 3. What is the value of the 7? _____
- **4.** What is the value of the 4? _____
- 5. Add ten. What is the sum? _____
- **6.** Add three hundred. What is the sum?
- 7. Add one thousand. What is the sum?_____

4000 + 500 + 70 + 3

Write this number in words form:

Read these word problems carefully and underline the question being asked before you begin.

Each foot of wall contains 8 bricks. How many feet of wall can you build if you have 144 bricks?

The publisher placed 100 books into boxes that held 6 books each. How many boxes were **completely filled**?

How many books were **left over**?

How many boxes were needed to hold all of the books?



38 kids from your homeschool group are taking a field trip to the zoo. Each car can hold 7 passengers in addition to the driver. How many moms will need to drive?

When you buy milk directly from the farm, it arrives in quart-sized glass jars packed into boxes that hold 4 jars each. If you order 6 gallons each week, how many boxes will you get?

Each bottle holds 240 vitamins. If you give each of your five kids 1 vitamin per day, how many days will the bottle last?

You want to make cakes for a bake sale. You have a big box with 5 dozen eggs. Each cake calls for 6 eggs. How many cakes can you make?

If you start the bottle January 5, what date will the bottle be empty?



Draw a bar graph to show the number of children in each class. (3.27)

Speech & Debate: 31 children

Sign Language: 27 children

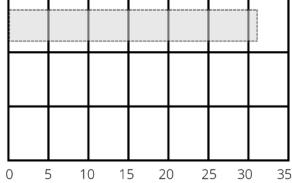
Grammar Games: 21 children

Speech & Debate

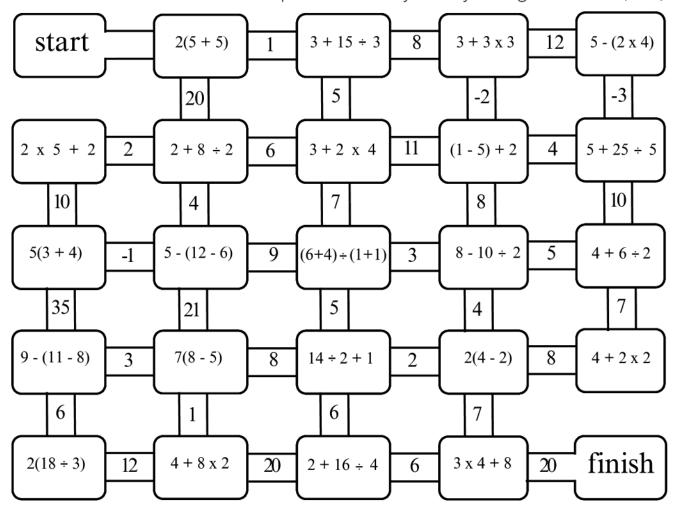


Grammar Games

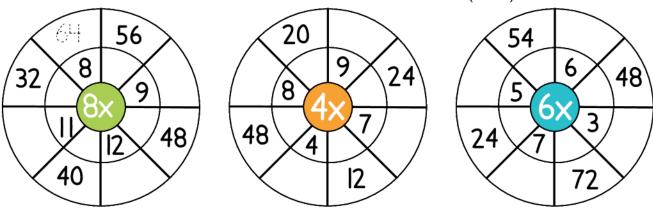




Choose the correct answer to each problem to find your way through this maze. (3.83)



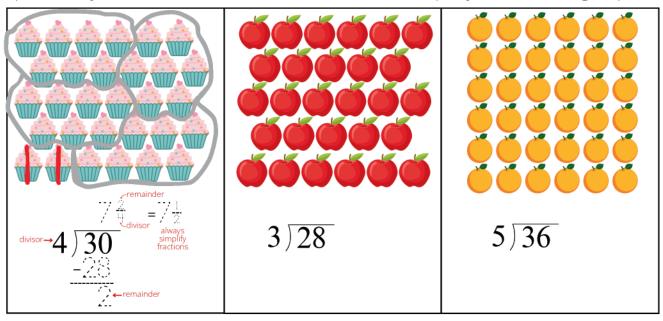
Fill in the blanks of these multiplication circles so that the outer circle is the PRODUCT of the middle circle and the innermost circle. (2.36)



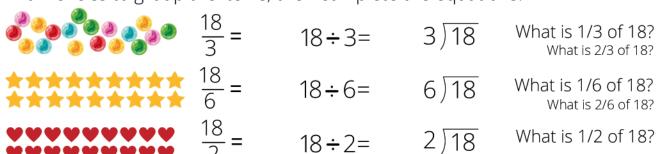
Continue the pattern (think square roots):

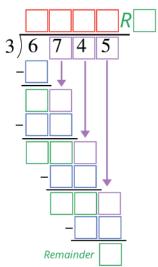
#15 Date

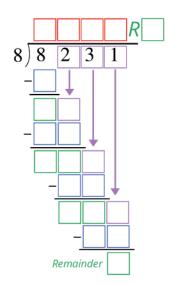
Draw lines to divide each set into the number of groups specified by the divisor. Circle any REMAINDERS in red, then divide them into the number of groups specified by the divisor. Divide the remainder PIECES equally between the groups.

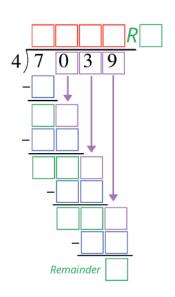


Draw circles to group the items, then complete the equations.

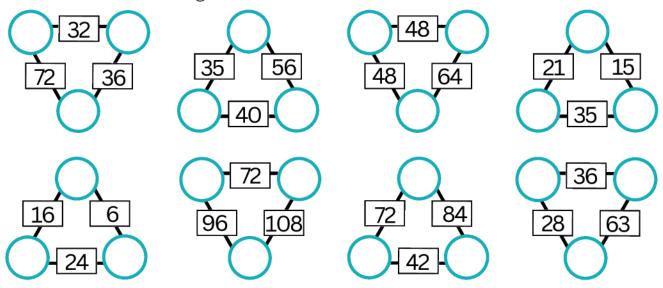








The numbers in the rectangles are the PRODUCTS of the FACTORS in the circles. Find the missing factors.



How much money is this? (3.18)



Round each amount above to the nearest dollar.

Solve using the Order of Operations (PEMDAS). (3.83)

$$7(1+3) \div 2^2 =$$

 $5^2 - 5 \times 5 =$ _____

 $(1+4) \times (2+3) =$ _____
 $6^2 - 4^2 =$ _____

 $1+4 \times 2+3 =$ _____
 $4+7-3 \times 2 =$ _____

 $3(4^2 - 8 \times 2) =$ _____
 $15 - (7-2) =$ _____

 $12 \times 4 - 2 \times 4 =$ _____
 $1+3 \times 3 =$ _____

 $12 \times (4-2) \times 4 =$ _____
 $10 \div (5 \times 2) =$ _____

 29

#16 Date _____

Trace then write each term, then draw a line to match each term to its definition.

numerator-	
denominator	
fraction	
<u>congruent - </u>	
quotient	

- The answer to a division problem.
- A piece of something.
- The bottom number in a fraction, it tells you how many pieces the shape is divided into.
- Two items are the same size and shape.
- The top number in a fraction, it tells you how many pieces you have.

Divide the cubes into S	IX equal groups.			
000000	What is 1/6 of 12?	What is 4/6 of 12?		
	What is 2/6 of 12?	What is 5/6 of 12?		
999999	What is 3/6 of 12?	What is 6/6 of 12?		
Divide the marbles into	SIX equal groups.			
	What is 1/6 of 18?	What is 4/6 of 18?		
	What is 2/6 of 18?	What is 5/6 of 18?		
	What is 3/6 of 18?	What is 6/6 of 18?		
Divide the pencils into S	SIX equal groups.			
	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?		
Divide the pencils into FOUR equal groups.				
	What is 1/4 of 24?	What is 3/4 of 24?		
	What is 2/4 of 24?	What is 4/4 of 24?		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Divide the pencils into EIGHT equal groups.				
	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?		

Solve using the Order of Operations (PEMDAS). (3.83)

$$8(4-1) \div 2 = \underline{\hspace{1cm}}$$

$$(5-2)^2 \times (1+2) =$$

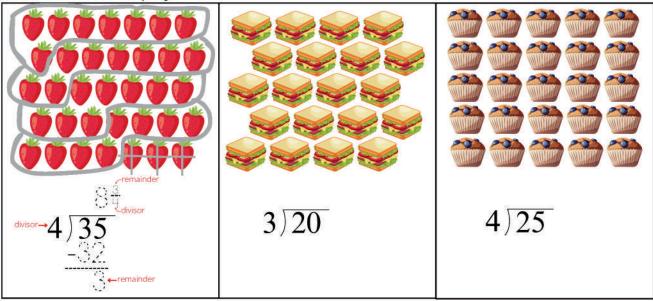
$$6^2 \div 3(4 - 2) =$$

$$4^2 - \sqrt{64} =$$

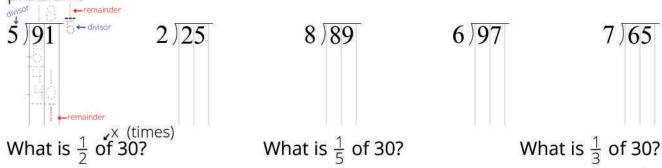
$$7(5 + 3) \div 2 =$$

$$10^2 + \sqrt{36} =$$

Draw lines to divide each set into the number of groups specified by the divisor. Circle any REMAINDERS in red, then divide them into the number of groups specified by the divisor. Divide the remainder PIECES equally between the groups. Remember to simplify. (4.15)



Find the quotients. Divide any remainders by the divisor to complete each problem.



7)65

#17

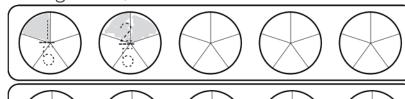
Date .

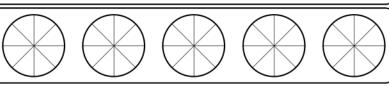
Order these fractions from least to greatest, then color them and label them.

(All denominators are the same!)

 $\frac{1}{5}$







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

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

$$\frac{1}{9}$$
 $\frac{1}{7}$ $\frac{1}{6}$ $\frac{1}{8}$ $\frac{1}{10}$

Compare these fractions (<, >, =). (All numerators are one!)

$$\frac{1}{5}$$
 \Rightarrow $\frac{1}{6}$

$$\frac{1}{4}$$
 $\frac{1}{6}$

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

$$\frac{1}{5}$$
 $\frac{1}{8}$

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

$$\frac{1}{8}$$
 $\frac{1}{8}$

$$\frac{1}{2}$$
 $\frac{1}{12}$

$$\frac{1}{6}$$
 $\frac{1}{3}$

Compare these fractions (<,>,=). (The denominators in each pair are the same!)

$$\frac{3}{12}$$
 $\frac{1}{12}$

$$\frac{5}{9}$$
 $\frac{4}{9}$

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

$$\frac{1}{7}$$
 $\frac{6}{7}$

$$\frac{3}{6}$$
 $\frac{4}{6}$

$$\frac{2}{5} - \frac{3}{5}$$

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

$$\frac{7}{8}$$
 $\frac{2}{8}$

Use your fraction circles to compare these fractions.

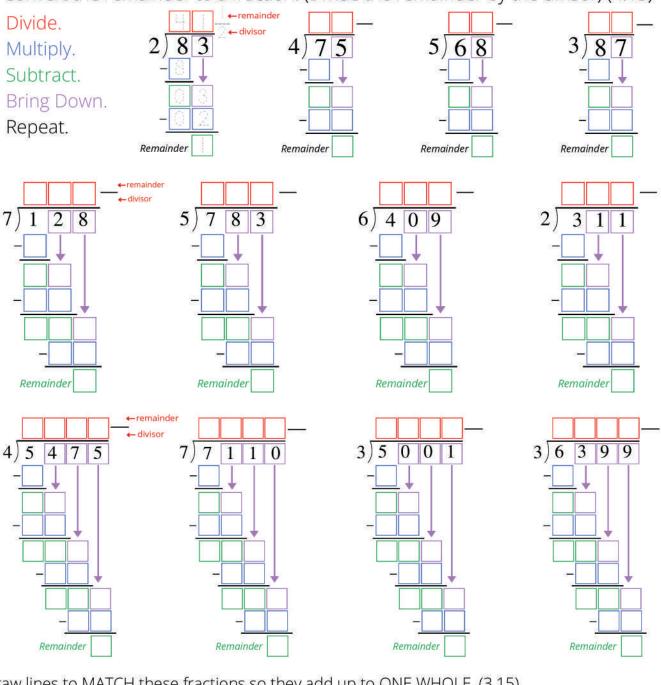
$$\frac{3}{5}$$
 $\frac{5}{6}$

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

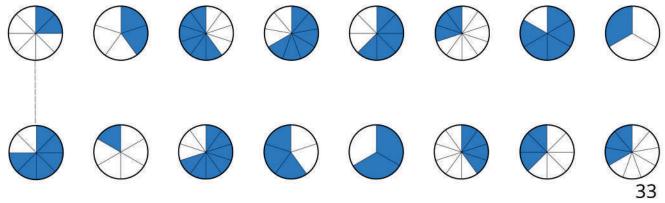
$$\frac{4}{10}$$
 $\frac{5}{8}$

$$\frac{4}{9}$$
 $\frac{3}{7}$

Convert the remainder to a fraction! (Divide the remainder by the divisor) (4.15)



Draw lines to MATCH these fractions so they add up to ONE WHOLE. (3.15)



#18

Date

Trace then write each term, then draw a line to match each term to its definition.

-	·
priir	10
fac	tor
	• ,
COM	<u> posite</u>
prin	ne factorization
muit	iples
inte	

- Numbers with more than two factors.
- The prime numbers which, when multiplied together, make the original number.
- A whole number greater than 1 whose only factors are 1 and itself.
- A number that divides the given number evenly with no remainder.
- The product of two numbers.
- · Another name for a whole number.

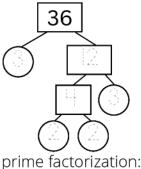
Find the multiples of:

5, 10, 15, ____, ____, ____, ____, ____, ____, ____

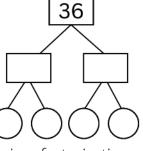
8, 16, 24, ____, ____, ____, ____, ____, ____, ____, ____

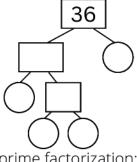
List the **factors** of 36: _____, ____, ____, ____, ____, ____, ____, ____, <u>36</u>

Factor the number in the top box of each factor tree. The composite numbers go in the rectangles and the prime numbers go in the circles.



36





prime factorization:

prime factorization:

prime factorization:

prime factorization:

Grandma was born in 1945. How old will she be this year?

How old was she in the year 2000?



Draw circles to group the items, then complete the equations. (4.16)

$$\frac{30}{10} = \frac{30}{5} = \frac{30}{2} = \frac{30}{2} = \frac{30}{2}$$

What is 1/10 of 30?
What is 2/10 of 30?

What is 1/5 of 30? What is 2/5 of 30?

What is 1/2 of 30? What is 2/6 of 30?

What times four is three more than five squared?

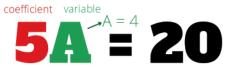
The square root of 64 is how much less than the

The square root of 64 is how much less than the square root of 81? What is 1/5 of forty?

Trace then write each term, then draw a line to match each term to its definition. (3.59)

coefficient	 	 	
variable	 	 	

- A letter or symbol that represents a number.
- A number in front of a variable. It gets multiplied by the variable.



Math Rule:

When you have a VARIABLE and a COEFFICIENT together in a number sentence, they are multiplied together. You don't need a multiplication symbol.

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

Find the value of the VARIABLE in each number sentence.

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

Color the COEFFICIENTS red and the VARIABLES green in these number sentences. Z = 15 Z = 16 Z =

#19

Date

List the first ten multiples of:

Name three common multiples of 2 and 3.

Name three common multiples of 3 and 6.

Name two common multiples of 2 and 5.

Name the LEAST common multiple (LCM) of:

4 and 5

3 and 9

3 and 7

Rename both fractions with new COMMON DENOMINATOR.

Rename both fractions with new COMMON DENOMINATOR.

Rename both fractions with new COMMON DENOMINATOR.

6 and 8

Find the equivalent fractions so these fractions have common denominators:

- 1. Find the least common multiple of both of the denominators. That will be your new denominator.
- 2. What do you need to multiply the denominator by to make the LCM?3. Multiply each fraction by ONE to RENAME it with the new denominator.

LCM of both denominators

Multiply first fraction by ONE what times

Multiply second fraction by ONE what times

LCM of both denominators Multiply first fraction by ONE

Multiply second fraction by ONE

LCM of both denominators Multiply first fraction by ONE

Multiply second fraction by ONE

Find the value of the exponents. (3.41)

Two to the power of zero
$$2^0 =$$

Two to the power of one
$$2^1 =$$

Two squared
$$2^2 = 2 \times 2 =$$

Two cubed
$$2^3 = 2 \times 2 \times 2 =$$

Two to the power of four
$$2^4 = 2 \times 2 \times 2 \times 2 =$$

Two to the power of five
$$2^5 = 2 \times 2 \times 2 \times 2 \times 2 =$$

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

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

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

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

25

125

Draw lines to connect each column. (3.41)





$$10^3$$

$$4^3$$

$$3^3$$
 64

$$2^2$$
 1000

Find the positive square roots. (3.42)

$$\sqrt{16} = _$$
 $\sqrt{25} = _$ $\sqrt{36} = _$ $\sqrt{9} = _$ $\sqrt{4} = _$ $\sqrt{81} = _$ $\sqrt{1} = _$ $\sqrt{64} = _$ $\sqrt{100} = _$ $\sqrt{49} = _$

Add these fractions. You can only add fractions with common denominators.

- 1. Find the LEAST COMMON MULTIPLE of both denominators.
- 2. RENAME both fractions. Multiply each of them by ONE, to find their EQUIVALENT fractions.

$\frac{1}{5} + \frac{3}{5} =$	$\frac{1^2}{48} + \frac{3}{8} =$	$\frac{12}{2} + \frac{1}{4} =$	$\frac{\frac{1}{3}}{26} + \frac{\frac{1}{3}}{36} =$
$\frac{2}{3} + \frac{1}{4} =$	$\frac{2}{9} + \frac{2}{3} =$	$\frac{1}{2} + \frac{1}{8} =$	$\frac{5}{6} + \frac{1}{12} =$

Subtract these fraction. Find a common denominator first.

$\frac{4}{5} - \frac{2}{5} =$	$\frac{1^2}{2^4} - \frac{1}{4} =$	$\frac{2^{4}}{36} - \frac{1}{26} =$	$\frac{48}{50} - \frac{15}{20} =$
$\frac{2}{3} - \frac{1}{4} =$	$1 - \frac{1}{4} =$	$\frac{3}{4} - \frac{1}{8} =$	$\frac{5}{6} - \frac{1}{3} =$

Round each number to the nearest 10; add the rounded numbers mentally. (4.11)

This is a tricky puzzle. What number does each letter represent? (3.59)

$$X + X + X = 21$$

$$X + 2Y = 15$$

$$3Z + 1 = 31$$

$$X + Z + 2Y =$$

$$3Z + 2Y =$$

$$2Z - 5 =$$

$$X + 11 =$$

$$2 - Y =$$

$$3Z + 1 = 31$$

$$2 - Y =$$

You started reading at 1:07. You devoured your book in 2 hours and twenty-five minutes. What time did you finish? (2.60)



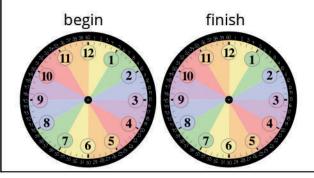
time	hours	minutes
1:07 3:07 3:32	add 2 to the HOURS	add 25 MINUTES +7

You need to bake 5 dozen cookies for a family party. You need to leave for the party at 5:00. It takes 20 minutes per dozen to bake the cookies. What time is the latest you could start baking?



hours	minutes

Your flight from Dallas to Mexico City takes 5 hours and 54 minutes. If your flight leaves at 10:05 what time are you scheduled to arrive? (no time zone changes)



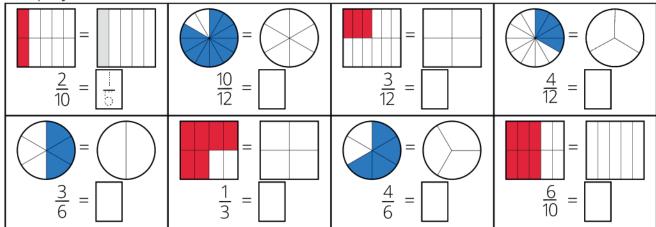
time	hours	minutes
		(*)

Adding or subtracting by place value (3.8)

add/subtract 1 in the ONES place 1 less 1 more

add/subtract 1 in the TENS place 10 less 10 more <u>|6</u>, 17, <u>|8</u> <u>|3|7</u>, 327, <u>387</u>

add/subtract 1 in the HUNDREDS place 100 less 100 more <u>89</u> , 189, <u>289</u> Simplify these fractions.



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

$$\frac{5}{4} =$$

$$\frac{12}{4} =$$

$$\frac{6}{8} =$$

$$\frac{36}{6}$$
 =

Draw lines to match terms. (3.40)

indeterminate	<u>1</u>
mixed number	0
0	1
undefined	2
whole number	<u>0</u>
1	<u>35</u> 4
improper fraction	$1\frac{1}{2}$

Trace then write each term.

indete	rmino	ite-		 	
mixed	num	oer-		 	
undef	ined			 	
whole	mumk)er -		 	
intege	1			 	
impro	oer f	nact	ion	 	

This is a tricky puzzle. What number does each letter represent? (3.59)

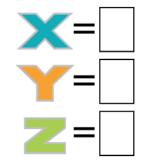
$$x^{2} = 64$$
 $2y + 1 = 23$
 $3z - y = 16$
 $x + 2y + z =$

$$3^{2} - \mathbf{X} = \boxed{}$$

$$5 \mathbf{Y} - 6^{2} = \boxed{}$$

$$\mathbf{Z} - \mathbf{Y} = \boxed{}$$

$$2^{2} - \mathbf{X} = \boxed{}$$



Color the coins needed to buy each item. (2.51)



If I pay for my meal with a ten dollar bill, what is my change? (2.51)





Adding or subtracting by place value (3.8)

riading of saberaceing a	by place value (5.0)	
add/subtract 2 in the ONES place	add/subtract 2 in the TENS place	add/subtract 2 in the HUNDREDS place
2 less 2 more	20 less 20 more	200 less 200 more
	OOF OAF OAF	5.50 107 250
<u>.54</u> , 56, <u>.58</u>	<u>325</u> , 345, <u>365</u>	<u>237</u> , 437, <u>637</u>
, 87,	, 152,	, 391,
, 0 , ,		
, 104,	, 324,	, 509,
, 101,		
		41

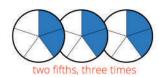
Multiply fractions by WHOLE numbers. Always simplify!

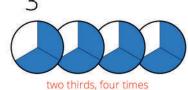
$$\frac{1}{2} \times 3\frac{3}{1} = \frac{3}{2} = \frac{1}{2}$$

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









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

simplify BEFORE multiplying

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



$$\frac{5}{6} \times 6\frac{6}{1} =$$

$$\frac{3}{4} \times 2 =$$









Multiply fractions by fractions. Always simplify!

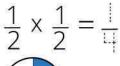
$$\frac{4}{4} \times \frac{1}{2} = \frac{4}{8} = \frac{1}{2}$$

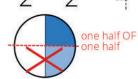
one half OF one fifth

$$\frac{3}{5} \times \frac{1}{3} = \frac{1}{5}$$

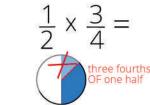


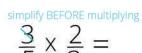






 $\frac{1}{5} \times \frac{1}{2} =$







$$\frac{7}{8} \times \frac{2}{3} =$$



Convert the mixed numbers to improper (top heavy) fractions.

$$1\frac{1}{5} = \frac{6}{5}$$



$$3\frac{7}{8} =$$



$$2\frac{3}{4}$$
 =



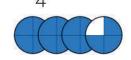






Convert the improper fractions to mixed numbers.

$$\frac{19}{12} = |\frac{7}{12}|$$



$$\frac{11}{10} =$$



$$\frac{16}{6} =$$



$$\frac{4}{3} =$$



List the first six multiples of:

- 2, 4, 6, 8, 10, 12, 14
- 3, ____, ____, ____, ____, ____
- 4, ____, ____, ____, ____, ____
- 6, ____, ____, ____, ____, ____
- 8, ____, ____, ____, ____
- 12, ____, ____, ____, ____

- Name the LEAST common multiple (LCM) of: (4.19)
- 2 and 3
- 2 and 6
- 3 and 4

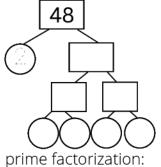
- 6 and 12

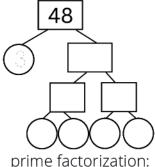
- 2 and 8

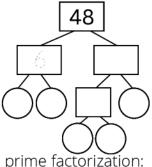
2 and 4

List the **factors** of 48: ____, ____, ____, ____, ____, ____, ____, ____, ____, ____,

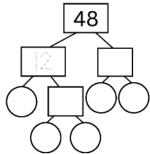
Factor the number in the top box of each factor tree. The composite numbers go in the rectangles and the prime numbers go in the circles.





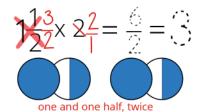


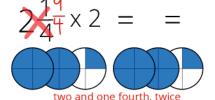
prime factorization:

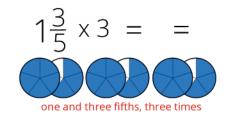


prime factorization:

convert the mixed number to an improper fraction first Multiply fractions by Mixed numbers. Always simplify!







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

one and two thirds, three times

$$1\frac{3}{8} \times 2 = =$$

one and three eighths, twice

$$2\frac{2}{6} \times 2 = =$$
two and two sixths, twice

Divide fractions by fractions. Always simplify!

Never divide by a fraction, instead multiply by the reciprocal.

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

$$\frac{2}{3} \times \frac{13}{3} = \frac{6}{3} = 2$$

$$\frac{7}{8} * \frac{1}{4} = =$$

how many times will 1/2 go into 1/2?





three times AND one half of a time

$$\frac{2}{5} \div \frac{1}{5} =$$

$$\frac{5}{6} \div \frac{1}{3} =$$

$$\frac{3}{4} \div \frac{1}{8} =$$

$$\frac{3}{4} \div \frac{1}{4} =$$

Divide whole numbers by fractions. Always simplify! Never divide by a fraction, instead multiply by the reciprocal.

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

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

 $4 * \frac{25}{5} =$

how many times will 1/2 go into 2?





once AND another 1/2 of 1/4

six times!

$$3 \div \frac{3}{8} =$$

$$1 \div \frac{1}{8} =$$

$$5 \div \frac{5}{6} =$$

$$3 \div \frac{1}{4} =$$

Divide fractions by whole numbers. Always simplify! Never divide by a fraction, instead multiply by the reciprocal.

$$\frac{1}{2} \times 2^{\frac{1}{2}} = \frac{1}{14}$$

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

$$\frac{3}{5} \times 3\frac{1}{3} = =$$

how many times will 2 go into 1/2?



how many times will 2 go into 2/3?





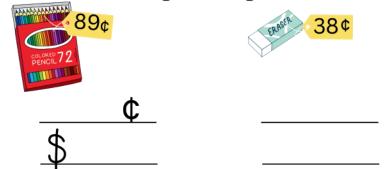
$$\frac{3}{4} \div 2 =$$

$$\frac{3}{4} \div 3 =$$

$$\frac{7}{8} \div 2 =$$

$$\frac{7}{8} \div 3 =$$

How much change will you receive if you pay for each item with \$1.00? Write each amount using a cent sign then a dollar sign. (3.18)



Find the lowest common denominator (LCD) of each group of fractions. Then RENAME each fraction using the LCD. Then order the fractions from the least to the greatest. (4.19)

Fractions LCD	<u>2</u>	1/2	3 4	7 8	$\frac{1}{4}$
Equivalent Fractions with LCD					
Order fractions least to greatest					

Fractions LCD	1 5	9 9	2/3	9 12	<u>5</u>
Equivalent Fractions with LCD					
Order fractions least to greatest					

Draw a rectangle that shows 2 x 3. Shade one third of the rectangle.

The operators are missing! Insert the correct operator (+, -, x) in each yellow circle to make the number sentence true. All answers have been simplified. (4.22 and 4.23)

$$\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$$

$$\frac{2^{8}}{3} = \frac{3^{9}}{4} = \frac{17}{12} = 1\frac{5}{12} \qquad \frac{5}{6} = \frac{2}{5} = \frac{1}{3} \qquad \frac{1}{2} = \frac{2}{4} = 1$$

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

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

$$\frac{3}{7}$$
 $\frac{5}{7}$ = $1\frac{1}{7}$

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

$$\frac{3}{4}$$
 $\frac{2}{5}$ $=$ $\frac{7}{20}$

$$\frac{3}{7} - \frac{5}{7} = 1\frac{1}{7}$$
 $\frac{1}{4} - \frac{2}{3} = \frac{1}{6}$ $\frac{3}{4} - \frac{2}{5} = \frac{7}{20}$ $\frac{4}{5} - \frac{2}{3} = \frac{2}{15}$

$$\frac{2}{5} - \frac{3}{5} = \frac{6}{25}$$

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

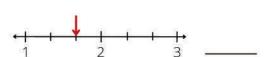
$$\frac{2}{3}$$
 $\frac{1}{3}$ = 2

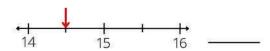
$$\frac{2}{5} = \frac{3}{5} = \frac{6}{25}$$
 $\frac{1}{2} = 2 = 2\frac{1}{2}$ $\frac{2}{3} = \frac{1}{3} = 2$ $\frac{1}{2} = \frac{3}{3} = \frac{3}{2} = 1\frac{1}{2}$

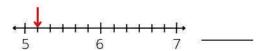
To which mixed number does each arrow point?

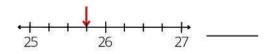
17 18 19

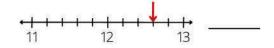












Use words to write $17\frac{2}{3}$

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

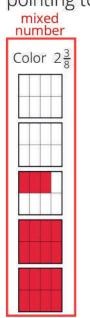
What is $\frac{3}{4}$ of 16?

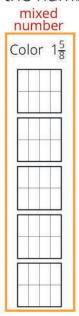
What is $\frac{1}{4}$ of 12?

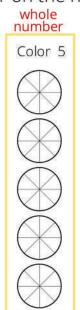
What is $\frac{3}{5}$ of 15?

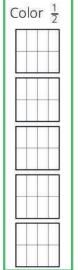
Color the number in each colored rectangle. Then draw an arrow that color pointing to the number on the number line below.

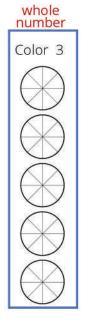
fraction

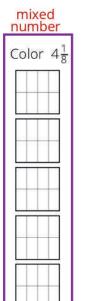


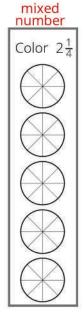












Divide the disc into TWO	oqual groups (4.16)	
Divide the dice into TWO	equal groups. (4.16)	
666666666	What is 1/2 of 36?	What is 2/2 of 36?
	Wilde is 172 of 50:	What is 2/2 of 50:
accepacion		
666666666		
Divide the dice into FOUR	equal groups.	
6666666666		
Cara Cara Cara Cara	What is 1/4 of 36?	What is 3/4 of 36?
	What is 2/4 of 36?	What is 4/4 of 36?
Divide the dice into SIX ec	qual groups.	
666666666	What is 1/6 of 36?	What is 4/6 of 36?
	What is 2/6 of 36?	What is 5/6 of 36?
666666666	What is 3/6 of 36?	What is 6/6 of 36?
666666666		
Divide the dice into NINE	equal groups.	
	What is 1/9 of 36?	What is 5/9 of 36?
		What is 6/9 of 36?
ANANANANA		What is 7/9 of 36?
		What is 8/9 of 36?
5,005,005,005,005,005,005,005,00	WHAT IS 4/ J OF JO:	VVIIde 13 0/ 3 01 30:

What patterns do you see in these problems?

There are three apples in a small bag. The medium-sized bag has twice that number of apples. The box has five times as many apples as the small bag.

How many apples are in the medium-sized bag?	
How many apples are in each box?	



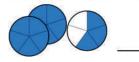
The small bag of apples costs \$3.30. The medium-sized bag of apples costs \$5.70. How much more per apple do the apples in the small bag cost?

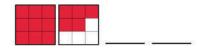
The box of apples costs \$12.00. What is the cost per apple in the box?

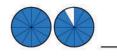
Name these fractions as mixed numbers and improper fractions.

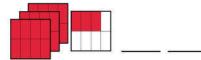








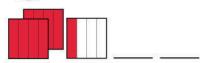






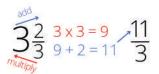






Use words to write $15\frac{3}{4}$

Draw and shade circles to show that $3\frac{2}{3}$ equals $\frac{11}{3}$.



Use the Butterfly Method to find the missing digits.

2x6=12 4x3=12 1x8=8 2x?=8



$$\frac{3}{10} = \frac{6}{10}$$



$$\frac{\square}{12} = \frac{4}{6}$$

$$\frac{3}{4} = \frac{2}{8}$$

$$\frac{2}{5} = \frac{10}{10}$$

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

$$\frac{\Box}{6} = \frac{6}{9}$$

Find the first three equivalent fractions. Draw fraction circles to match. (2.56)







$$\frac{3}{4} \times \frac{4}{4} =$$

$$\frac{1}{3}$$

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

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

$$\frac{1}{3} \times \frac{4}{4} =$$

$$\frac{1}{2}$$

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

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

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

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

Find the value of the VARIABLE in each number sentence. (3.59)

$$3X = 36$$

$$8Y = 48$$

$$6Z = 42$$

This is a tricky puzzle. What number does each letter represent? (3.59)

$$\times^2 = 64$$

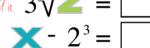
$$\times + Y^2 = 57$$

$$5 = 45$$

are multiplied.

square roots are also called radicals





X=





Solve using the Order of Operations (PEMDAS) (3.83):

$$3(5-1) \div 2 =$$

$$(8+4) \div (1+2) =$$

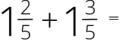
$$\sqrt{7 + 3 \times 3} =$$

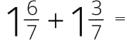
$$9^2 - 7^2 =$$

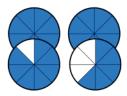
$$6(16 \div 2) \div 12 =$$

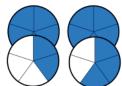
Find the sum. Remember to simplify your answer!

$$1\frac{7}{8} + 1\frac{5}{8} = 2\frac{12}{8} = 3\frac{1}{2}$$
 $1\frac{2}{5} + 1\frac{3}{5} =$









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

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

$$3\frac{1}{3}$$
 + $1\frac{3}{4}$

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

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

Find the difference. Remember to simplify your answer!

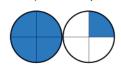








$$1\frac{1}{4} - \frac{3}{4} =$$



$$2\frac{1}{3}$$
 $-1\frac{2}{3}$

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

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

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

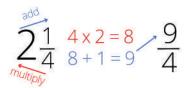
$$2\frac{2}{3}$$
 $-1\frac{1}{2}$

If 2 apples cost 80 cents, how much money will 3 apples cost?



There are 60 minutes in 1 hour and 24 hours in 1 day. How many minutes are in 1 day?

Draw and shade circles to show that $2\frac{1}{4}$ equals $\frac{9}{4}$.



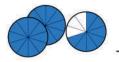


Name these fractions as mixed numbers and improper fractions. (4.25)

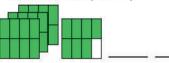






















Convert these improper fractions to mixed numbers. (4.25)

$$\frac{21}{8} = 2\frac{5}{8}$$

$$\frac{15}{7} =$$

$$\frac{16}{5} =$$

$$\frac{13}{6} =$$

$$\frac{11}{2} =$$

$$\frac{23}{8} =$$

$$\frac{8}{3} =$$

$$\frac{13}{4} =$$

$$\frac{10}{9} =$$

$$\frac{14}{6} =$$

$$\frac{24}{5}$$
 =

$$\frac{18}{7} =$$

Each group contains two truths and a lie. Circle the LIE in each group. Follow the order of operations (PEMDAS). (3.83)











$$^2 = 49$$

$$\times (\bigcirc - \bigcirc) = 18$$

$$(\bigcirc - \bigcirc) - \bigcirc = -6$$

Draw a picture and write a number sentence to help you solve these word problems.

At the school sale, you bought 3 boxes of pencils with 98 pencils each. How many pencils do you have?

Your little brother ate 71 of the jelly beans in the jar. There are only 17 jelly beans left. How many jelly beans were there originally?

Each meal at the food truck was \$9.89. How much will 6 meals cost?

You bought a box of 96 crayons. You have used it for a year. It currently has 49 crayons. How many are missing?





You buy 4 books each week at the bookstore. How many books will you have after 1 year?

You are 52 inches tall. You are 19 inches taller than your brother. How tall is he?





Each Christmas card costs 55 cents. How much will 9 cards cost?

We need 96 peaches for our family reunion. If each box holds 12 peaches, how many boxes do need to buy?





Find the products. Always simplify! (3.22) Simplify BEFORE multiplying whenever you can

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

$$\frac{1}{3} \times \frac{3}{4} =$$

$$5 \times \frac{1}{8} =$$

$$\frac{3}{4} \times \frac{1}{3} =$$

$$\frac{1}{3} \times \frac{3}{8} =$$

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

$$\frac{3}{5} \times \frac{5}{6} =$$

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

$$\frac{1}{4} \times \frac{1}{3} =$$

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

$$3 \times \frac{3}{4} =$$

$$\frac{3}{4} \times \frac{1}{4} =$$

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

$$5 \times \frac{1}{3} =$$

$$\frac{3}{8} \times \frac{2}{5} =$$

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

Find the quotients. Always simplify! (3.23)

Never divide by a fraction, instead multiply by the reciprocal.

$$\frac{2}{5} * \frac{1}{5} = \frac{2}{1} = 2$$
 $\frac{1}{4} \div \frac{1}{4} =$

$$\frac{1}{4} \div \frac{1}{4} =$$

$$\frac{3}{5} \div \frac{1}{3} =$$

$$\frac{5}{6} \div \frac{3}{4} =$$

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

$$\frac{3}{4} \div \frac{1}{8} =$$

$$1 \div \frac{1}{6} =$$

$$\frac{3}{5} \div \frac{1}{5} =$$

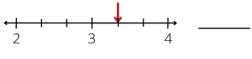
$$\frac{2}{5} \div \frac{1}{5} =$$

$$3 \div \frac{1}{4} =$$

$$\frac{3}{4} \div \frac{1}{2} =$$

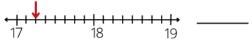
$$4 \div \frac{1}{4} =$$

To which mixed number does each arrow point? (4.24)













Date

#28 Date
$$\frac{te^{n}nd^{s}}{thousand^{s}} e^{ds}$$

$$7 \times 1 =$$

$$7 \times 10 =$$

$$7 \times 100 =$$

$$7 \times 1000 =$$

$$7 \times 3 = 7 \times 300 = 7 \times 3000 = 7$$

Find the sums and differences. Find a common denominator first. Simplify. (3.20)

- 1. Find the LEAST COMMON MULTIPLE of both denominators.
- 2. RENAME both fractions. Multiply each of them by ONE, to find their EQUIVALENT fractions.

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

$$\frac{12}{48} + \frac{5}{8} =$$

$$\frac{1}{2}$$
 + 1 =

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

$$\frac{2}{3} + \frac{1}{9} =$$

$$\frac{1}{4} + \frac{2}{3} =$$

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

$$\frac{1}{6} + \frac{1}{3} =$$

$$5_{5}^{25} - \frac{2}{5} =$$

$$\frac{3^{6}}{4^{8}} - \frac{1}{8} =$$

$$\frac{13}{26} - \frac{12}{36} =$$

$$\frac{39}{412} - \frac{114}{312} =$$

$$\frac{5}{6} - \frac{1}{3} =$$

$$\frac{2}{3} - \frac{1}{4} =$$

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

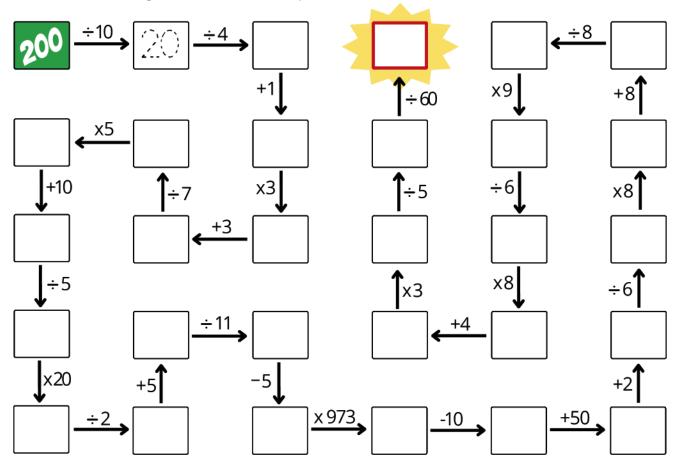
$$1 - \frac{1}{4} =$$

You had 15 marbles. You won twice that many from your friend. How many marbles do you have now?

Babies need their diapers changed every two hours all day and night. A box of 48 diapers costs \$20.00. How much will diapers cost every four weeks?



Fill in the missing numbers to complete the number snake.



Your mom puts star stickers on your chore chart and your sisters chore chart every day after you complete your chores. The package originally had 124 stickers. You and your sister have earned an equal amount. There are 38 stickers left. How many stickers do you have?

#29

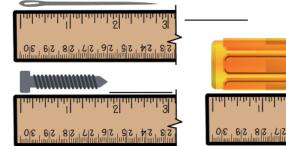
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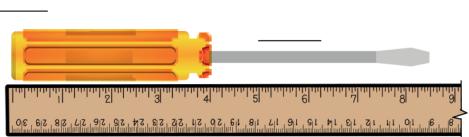
Find the missing numbers to complete each equation. (3.36)

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

$$\frac{147}{349}$$

Find the length of each item to the nearest quarter inch. Use units! (3.20)





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

Find the value of the VARIABLE in each number sentence.

$$3Z = 21$$

$$8C = 56$$

$$5A = 25$$

$$7S = 42$$

$$9X = 36$$

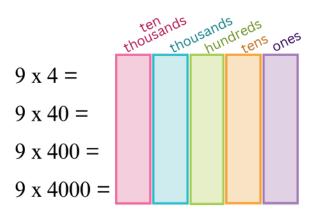
$$2T = 24$$

$$4B = 28$$

$$6Y = 48$$

$$3R = 36$$

9 x 1 = 9 x 10 = 9 x 1000 =



quantity means parentheses (7 + 1)

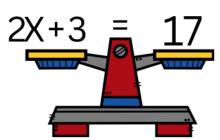
What is twice the quantity of seven and one?

The quantity of seven and three is equal to the quantity of what number and two?

Use the number line to find each sum or difference. (3.58)



Solve for x: (get x by itself!)



UNDO everything that has been done to the X

Step 1: subtract 3 from BOTH sides

2X + 3 = 17

Step 2: divide BOTH sides of the equation by 2.

Step 3: Check your answer by replacing X with the solution.

 $_{\text{true!}}$ (2•7) + 3 = 17

I used a dot to represent multiplication because an x could have been confused with a variable

Solve for the variable:

$$X + 5 = 15$$

$$36 \div X = 9$$

$$X + 21 = 35$$

$$8X = 56$$

$$8^2 + 2X = 72$$

$$9X = \sqrt{81}$$

$$X \div 2 = 8$$

$$3 + 12X = 75$$

$$4 + 8X = 20$$



Eight times four is how much less than six squared?

Three cubed is how much more than three times five?

Solve using the Order of Operations (PEMDAS). (3.83)

$$3 \times 6 - 2 \times 4 =$$

$$2^3 - \sqrt{36} =$$

$$4^2 \div \sqrt{64} =$$

$$3 \times 3 - 2^2 =$$

Adding or subtracting by place value (3.8).

add/subtract 3 in the ONES place

add/subtract 3 in the TENS place

30 more

30 less

add/subtract 3 in the HUNDREDS place

300 less

3 more 3 less

<u>52</u>, 55, <u>58</u> <u>230</u>, 260, <u>290</u>

198, 498, 798

300 more

____, 106, ____ 348, ____

____, 603, ____

____, 174, ____

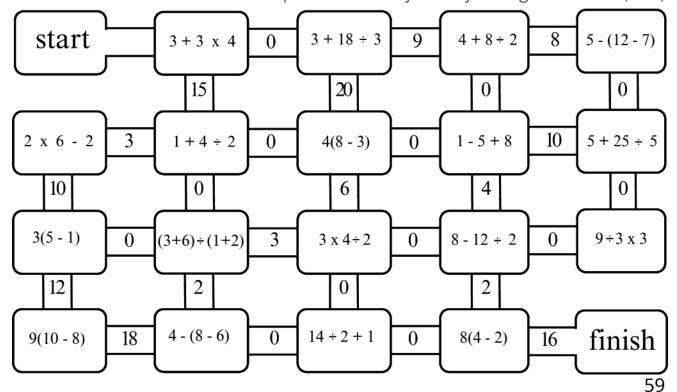
____, 239, ____

____, 537, ____

Fractions LCD	<u>5</u>	<u>1</u> 3	$\frac{1}{4}$	1/2	9 12
Equivalent Fractions with LCD					
Order fractions least to greatest					

Fractions LCD	1/2	7/10	<u>4</u> 5	9 15	<u>2</u> 3
Equivalent Fractions with LCD					
Order fractions least to greatest					

Choose the correct answer to each problem to find your way through this maze. (3.83)

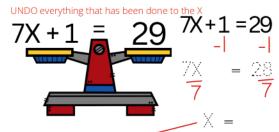


Solve for x: (get x by itself!)



Check your answer by replacing X with the solution.

$$3(5) + 4 = 19$$
 is this correct?



Check your answer.

is this correct?

Solve these fun algebra puzzles for x: show your work beneath each problem, then check your answers by substituting the value of x you found for the x in the original equation.

$$2X + 6 = 20$$
 $2X = 4$

$$12 + 5X = 27$$

$$X(7 + 2) = 72$$

$$\sqrt{2}$$
 + 6 = 20 true!

$$\checkmark$$
 (7 + 2) = 72

$$8X - 20 = 52$$

$$X(10 - 5) = 40$$

$$25 + 5X = 50$$

$$\sqrt{8}$$
X - 20 = 52

$$\checkmark$$
X(10 - 5) = 40

$$\checkmark$$
 25 + 5 \times = 50

Find the sums and differences. Remember to simplify. (3.20)

$$\frac{5^{10}}{6^{12}} + \frac{1^{3}}{4^{12}} = \frac{1}{12} = \frac{1}{12} + \frac{1^{5}}{3^{15}} + \frac{3^{9}}{5^{15}} =$$

$$\frac{15}{3}$$
 + $\frac{39}{5}$ =

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

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

$$\frac{2}{5} + \frac{1}{5} =$$

$$\frac{1}{4} + \frac{3}{8} =$$

$$\frac{1}{7} + 1 =$$

$$\frac{5}{9} + \frac{1}{3} =$$

$$3_{3}^{9} - \frac{2}{3} =$$

$$\frac{3^{6}}{4^{8}} - \frac{1}{8} =$$

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

$$1 - \frac{1}{4} =$$

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

60

$$\frac{2}{3} - \frac{1}{5} =$$

$$\frac{7}{8} - \frac{3}{4} =$$

$$1 - \frac{3}{5} =$$

Fill in the blanks to complete each chart. (4.28)

		<u> </u>	
	x 10	x 100	x 1000
23	230	2300	
6			
12			

	x 20	x 200	x 2000
23			
6			
12			

Find the missing factors. (4.28)

$$_{---}$$
 x 10 = 140

Draw lines to match each English phrase with it's math translation.

Find the products and quotients. Always simplify! (4.22)

$$\frac{3}{4} \times \frac{1}{3} = \frac{1}{11}$$
 $\frac{2}{5} \times \frac{3}{4} = \frac{3}{4} \times \frac{4}{5} = \frac{3}{4} \times \frac{4$

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

$$\frac{3}{4} \times \frac{4}{5} =$$

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

Never divide by a fraction, instead multiply by the reciprocal.

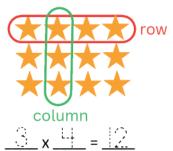
$$\frac{3}{4} * \frac{1}{4} = \frac{3}{1} = 3 = 3 = \frac{3}{5} \div \frac{3}{4} = \frac{5}{6} \div \frac{1}{5} = \frac{1}{1}$$

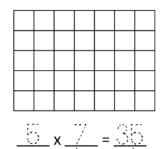
$$\frac{3}{5} \div \frac{3}{4} =$$

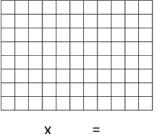
$$\frac{5}{6} \div \frac{1}{5} =$$

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

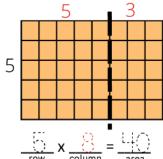
In arrays, rows are horizontal and columns are vertical. We name an array by the number of rows it has and then the number of columns it has.





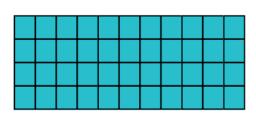


Draw a line to cut each rectangle into parts, then finish the number sentences.



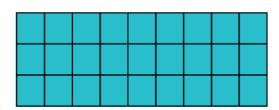


$$(5 \times 5) + (5 \times 3) =$$



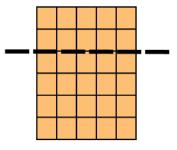
$$(4 \times 5) = (4 \times 6) =$$

$$(4 \times 5) + (4 \times 6) =$$



$$(3 \times 2) = ___ (3 \times 7) = ___$$

$$(3 \times 2) + (3 \times 7) =$$



$$(2 \times 5) = ___ (4 \times 5) = ___$$

$$(2 \times 5) + (4 \times 5) =$$

What number times three is equal to six more than seven times three?

The square root of forty-nine is how much less than five squared?

Solve these fun algebra puzzles for x. (4.31) show your work beneath each problem and check your answers.

$$3X - 17 = 1$$

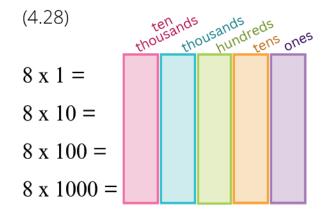
$$X(4 - 1) = 33$$

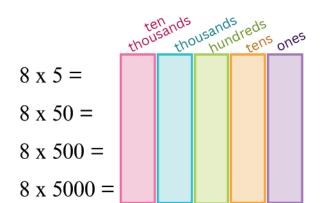
$$X(3 + 4) = 56$$

$$8 + 12X = 44$$

$$X(10 - 4) = 72$$

$$7X - 12 = 37$$





Fill in the blanks to complete each chart. (4.28)

	x 10	x 100	x 1000
15			
8			
21			

	x 30	x 300	x 3000
15			
8			
21			

#34

Date

Identify each shaded part using a fraction, a decimal and words.





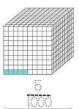








forty-four hundredths





Draw lines to match the decimals and fractions.

0.5

0.03

0.05

0.01

0.005

0.3

0.1

0.003

0.001

10 pounds of grapes cost \$12.47. What is the cost per pound?



1 dozen muffins costs \$9.99. What is the cost per muffin?

Use comparison symbols (<, >, =) to compare these decimal numbers. (2.2)

0.002 < 0.2

0.04 0.4

0.6

0.5 0.05

0.09 0.09

0.07 0.007

0.03 0.003

0.001 0.01

0.008

Draw and shade circles to find each improper fraction. (4.25)

$3\frac{5}{8} = \frac{29}{8}$	$2\frac{4}{5} = \frac{14}{5}$	$4\frac{1}{3} =$
1 ⁹ / ₁₂ =	$3\frac{3}{4} =$	2 5 /8 =
$4\frac{7}{10} =$	$2\frac{1}{2} =$	3 5 =

Write operators (x, +, -) in all of the empty squares to make each number sentence true. Remember to apply the Order of Operations, PEMDAS. (3.83)

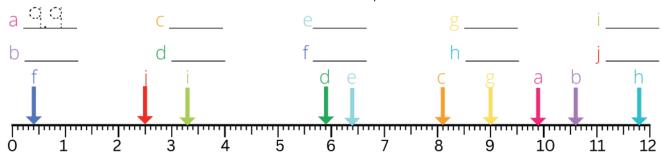
2	X	3	3	=	18
11		О	3	=	3
7		8	2	=	3
=		=	=		=
6		3	2	=	9

1	+	5	2	=	11
2		0	2	=	2
2		4	5	=	3
		=	=		=
5		5	20	=	5

#35

Date

To which decimal number does each arrow point?



Draw arrows to each decimal number and label them with the number.

8:5

4.9

0.7

6.8

2.1

1.2

10.3

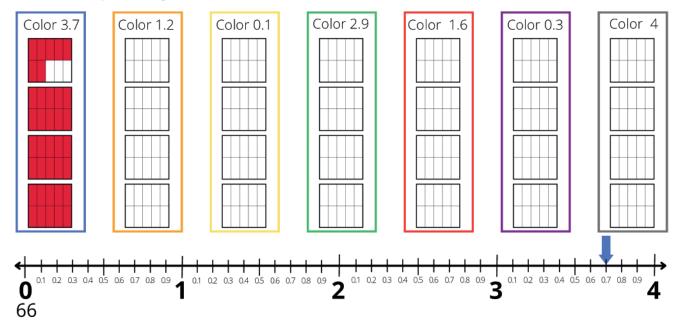
7.4

11.6

5.3



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



Identify each shaded part using a fraction, a decimal and words. (4.34)











nine tenths





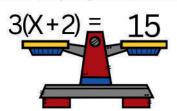






Solve for x (get x alone). (4.31) Show your work beneath each problem, then check your answers.

UNDO everything that has been done to the X



$$3(X+2) = 15$$

$$3X + 6 = 15$$
 $-6 -6$
 $3X = \frac{9}{3}$
 $X = 3$

$$5(2 + X) = 40$$

$$3 + 5X = 28$$

Check your answer by replacing X with the solution.

$$3(3+2) = 15$$

is this correct?

$$2X - 4 = 12$$

$$X(8 - 4) = 28$$

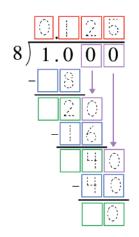
$$8X = 56$$

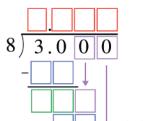
$$X - 11 = 25$$

$$2(X - 7) = 6$$

$$3 + 9X = 30$$

Color the fraction circles and find decimals and percents to match each fraction in the chart.

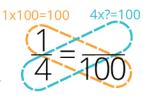




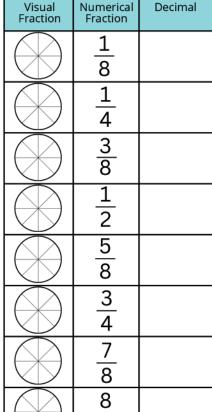


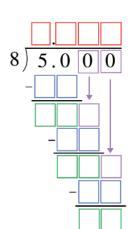


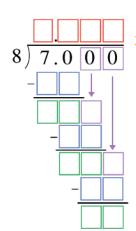


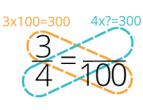


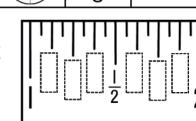












Add the missing fractions to this section of ruler.

Find the products and quotients. Always simplify! (3.22)

$$\frac{3}{9} \times \frac{1}{3} = \frac{1}{3}$$
 $\frac{5}{6} \times \frac{2}{3} =$

$$\frac{2}{5} \times \frac{1}{2} =$$

$$\frac{1}{5} \times 5 =$$

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

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

$$3 \times \frac{1}{5} =$$

$$\frac{1}{3} \times \frac{3}{4} =$$

Never divide by a fraction, instead multiply by the reciprocal.

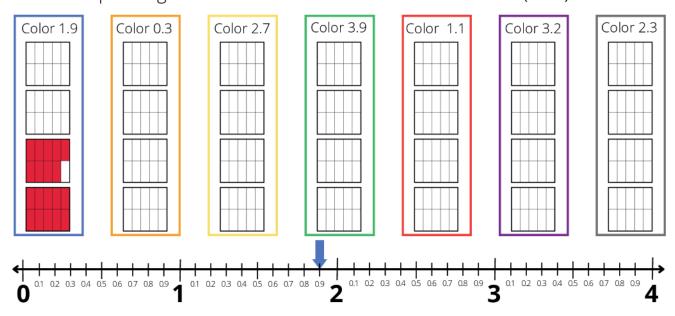
$$\frac{5}{6} \times \frac{2}{3} \cdot \frac{3}{2} = \frac{5}{12} = \frac{4}{5} \div \frac{1}{4} = \frac{5}{68}$$

any times will the second frac
$$\frac{4}{5} \div \frac{1}{4} =$$

$$\frac{5}{7} \div \frac{5}{8} =$$

$$\frac{5}{6} \div \frac{1}{6} =$$

Color the decimal number in each colored rectangle. Then draw an arrow that color pointing to the number on the number line below. (4.35)



Each group contains two truths and a lie. Circle the LIE in each group. Follow the order of operations. (PEMDAS) (3.83)

$$= 8$$

$$(2 - 0) = 30$$

$$2^{2} - 2^{2} = 28$$

$$2^{2} - 2^{2} + 2^{2} = 80$$

$$2^{2} - 2^{2} \times 2^{2} = -25$$

Fill in the blanks to complete each chart. (4.28)

	x 10	x 100	x 1000
9			
4			
13			

	x 40	x 400	x 4000
9			
4			
13			

Use your place value chart to help you write the mixed numbers as decimals.

$$1\frac{1}{10} = \frac{1}{10}$$

$$4\frac{38}{100} = 4.38$$

$$6\frac{1}{1000} = 6.001$$

$$5\frac{9}{10} =$$

$$2\frac{3}{10} =$$

$$4\frac{4}{100} =$$

$$7\frac{78}{100} =$$

$$2\frac{52}{1000} =$$

$$3\frac{2}{10} =$$

$$9\frac{4}{10} =$$

$$4\frac{19}{100} =$$

$$8\frac{6}{10} =$$

$$3\frac{725}{1000} =$$

$$2\frac{52}{100} =$$

$$1\frac{2}{1000} =$$

Convert these mixed numbers to decimals. Rename the fractional part with a denominator of ten or one hundred.

$$3\frac{1}{2} = 3.5$$
 $2\frac{1}{3} =$



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

$$2\frac{3}{8} =$$

$$2\frac{3}{4} =$$

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

$$1\frac{2}{5} =$$

$$4\frac{5}{8} =$$

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

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

Write each decimal as a fraction with a denominator of ten.

Solve using the Order of Operations (PEMDAS). (3.83)

$$6^2 \div 9 =$$

$$2 + 3 \times 3 =$$

$$9 \times 5 \div 3^2 =$$

Draw circles to group the items, then complete the equations. (4.16)



$$\frac{20}{2}$$
 =



$$\frac{20}{4}$$
 =

$$20 \div 4 = 4 \sqrt{20}$$



$$\frac{20}{5}$$
 =

What is twice the quantity of nine and three?

What is one fifth of forty?

Find the missing fractional addends to make each number sentence true. (4.20)

$$\frac{1}{6} + \frac{\chi_2}{36} = \frac{\chi_3}{\chi_6}$$

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

$$\frac{\cancel{2}}{\cancel{2}}$$

$$\frac{1}{5} = \frac{4}{5}$$

$$\frac{1}{4}$$
 + $=\frac{5}{8}$

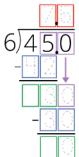
$$\frac{2}{5} + \boxed{= \frac{1}{5}}$$

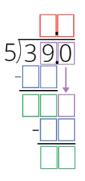
$$\frac{3}{12}$$
+ = $\frac{1}{2}$

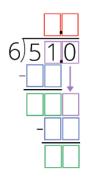
$$1 + \frac{1}{6} = \frac{3}{4}$$

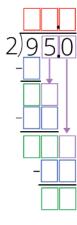
$$+\frac{1}{4} = \frac{3}{8}$$

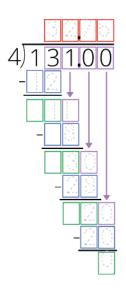
Find the quotients.

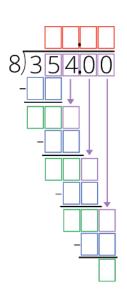


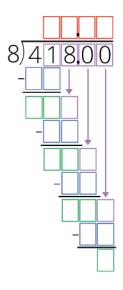


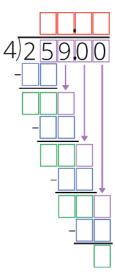


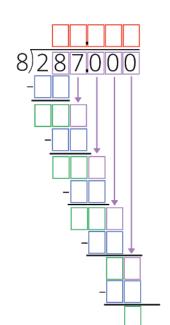


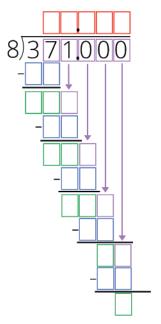


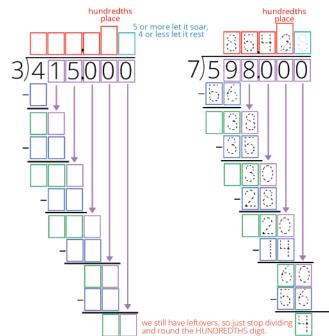












Write these mixed numbers as decimals. (4.37)

$$1\frac{8}{10} = 1.8$$

$$3\frac{27}{100} =$$

$$2\frac{3}{10} =$$

$$3\frac{4}{10} =$$

$$3\frac{4}{1000}$$
=____

$$3\frac{4}{100} =$$

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

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

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

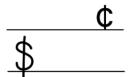
Write each decimal as a fraction with a denominator of ten. (4.37)

How much change will you receive if you pay for each item with \$1.00? Write each amount using a cent sign then a dollar sign. (3.18)









Convert these mixed numbers to decimals. Rename the fractional part with a denominator of ten or one hundred. (4.37)

 $1\frac{1}{4} = 1.25$



$$3\frac{4}{5} =$$



$$1\frac{3}{5} =$$

$$5\frac{3}{10}$$

$$1\frac{8}{9} =$$

$$4\frac{7}{9} =$$

$$7\frac{1}{6} =$$

$$2\frac{5}{9} =$$

$$3\frac{5}{6} =$$

Re-write and stack the numbers, lining up the decimal points. Solve.

Let's have a bake sale! Find the cost following ingredients:

flour	\$3.40
sugar	\$3.97
butter	\$4.98
eggs	\$3.86
chocolate chips	\$3.79



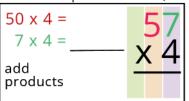
This recipe makes ONE HUNDRED cookies! What is the cost per cookie?

If we sell each cookie for one dollar and we sell all of them, how much profit will we make? (profit = total sales minus cost of ingredients)

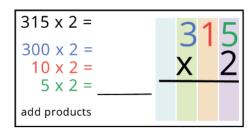
Use the number line to find each sum or difference. (3.58)



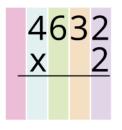
Find the products. (3.66)







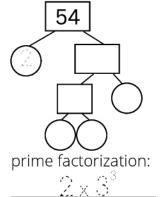


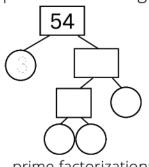


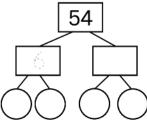


List the **factors** of 54: _____, _____, _____, _____, ____, ____, ____, ____, ____

Factor the number in the top box of each factor tree. The composite numbers go in the rectangles and the prime numbers go in the circles. (3.65)







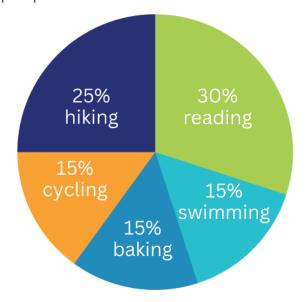
prime factorization:

prime factorization:

Complete this table.

Visual Fraction	Numerical Fraction	Decimal	Percent
	10	0.1	10%

A survey was conducted to determine the preferred activity of a group of people. These were the results.



If 100 people voted, how many voted for each activity:

swimming_____

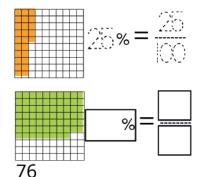
reading _____

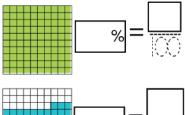
hiking

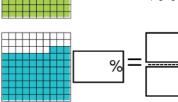
Which three activities tied? _____

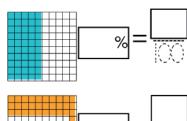
How many more people voted for reading than swimming?

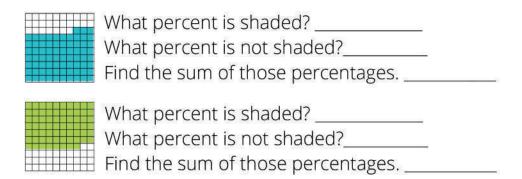
Each block has 100 squares. Write each percentage and each fraction with a denominator of 100 (Per CENT).



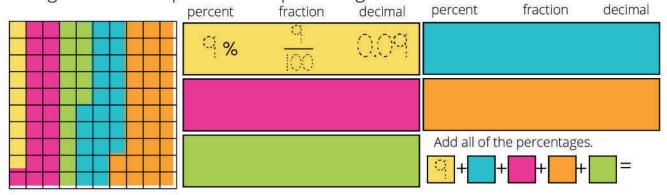








This grid has 100 squares. What percentage is each color?



Why do the percentages of each color all add up to 100%? _____

Do percentages always add up to 100%? _____

Find the missing fractional addends to make each number sentence true. (4.20)

$$\frac{\cancel{12}}{\cancel{24}} + \boxed{\frac{1}{\cancel{14}}} = \frac{3}{4}$$

$$1 + \frac{1}{5} = \frac{4}{5}$$

$$\boxed{ +\frac{1}{5} = \frac{4}{5} } \qquad \frac{1}{3} + \boxed{ = \frac{3}{3} = 1}$$

$$+\frac{\chi_2}{36} = \frac{3}{6}$$

$$1 + \frac{1}{6} = \frac{1}{2}$$

$$+\frac{3}{5}=\frac{9}{10}$$

$$\frac{1}{12}$$
 + $=\frac{3}{4}$

$$\boxed{+\frac{3}{5} = \frac{9}{10}}$$
 $\boxed{\frac{1}{12} + \boxed{=\frac{3}{4}}$ $\boxed{\frac{3}{6} + \boxed{=\frac{11}{12}}}$

$$\frac{3}{12}$$
+ = $\frac{1}{2}$

$$+\frac{3}{10}=\frac{4}{5}$$

$$\frac{3}{12}$$
 + $\boxed{ = \frac{1}{2} }$ + $\frac{3}{10}$ = $\frac{4}{5}$ $\boxed{ = \frac{8}{5} = 1 }$ + $\frac{1}{4}$ = $\frac{7}{8}$

$$\boxed{+\frac{1}{4} = \frac{7}{8}}$$

Find the quotients.

1x10=10 5x?=10







3x10=30 5x?=30





Complete the table.

Visual Fraction	Numerical Fraction	Decimal	Percent
	LO	0.20	20%

What is the place value of the 7 in each of these numbers? Write it as a fraction or a whole number. Use your place value chart if you need to.

Name these fractions as mixed numbers and improper fractions. (4.25)



















Convert these improper fractions to mixed numbers.

$$\frac{13}{8} = \frac{15}{8}$$

$$\frac{10}{4} =$$

$$\frac{15}{2} =$$

$$\frac{17}{5} =$$

$$\frac{11}{6} = 78$$

$$\frac{25}{8} =$$

$$\frac{9}{7} =$$

$$\frac{13}{3} =$$

Find the lowest common denominator (LCD) of each group of fractions. Then RENAME each fraction using the LCD. Then order the fractions from the least to the greatest. (4.19)

Fractions LCD	$\frac{1}{2}$	<u>5</u>	<u>5</u> 9	<u>2</u> 3	9 12
Equivalent Fractions with LCD	i i			Si Si	
Order fractions least to greatest					

Fractions LCD	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{1}{4}$	13 16	1/2
Equivalent Fractions with LCD	t er				i i
Order fractions least to greatest					

of = times How much is 1/5 of 25?

How much is 3/5 of 25?

How much is 1/6 of 42?

How much is 5/6 of 42?

You have two gallons of juice. Use a crayon to "fill" as many of these containers as you can before you run out of juice. Use all of the juice. (3.21)



What fraction of the containers did you "fill"?

What decimal is that fraction? (find the equivalent fraction with a denominator of ten)

number of containers filled
$$\frac{1}{20} = \frac{1}{10}$$

You earned \$95.50 washing windows and \$123.50 babysitting. How much did you earn altogether?

After you earned that money, you took your two sisters to a movie. Each ticket was \$7.50. How much did you pay for three tickets?

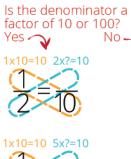


How much money do you have left?

Find the fractions, decimals and percents to complete these charts. Round the decimals to the nearest hundredth. Round the percents to the nearest whole number.

Visual Fraction	Numerical Fraction	Decimal	Percent
	edja:	0.22	22%

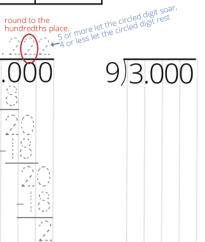
Visual Fraction	Numerical Fraction	Decimal	Percent





1x100=100 4x?=100

_ د	0.	2		2
9)	2	<u>.</u> C	\bigcup	0
	_			
		2	0	
			응	
			2	0
			-	8
				2



8)	3.	OC	00

3.000	7)3.000









6)	5.	0	0	Ō

7	5.	000)

Convert these mixed numbers to improper fractions. (4.25)

$$1\frac{1}{8} = \frac{9}{8}$$

$$1\frac{2}{5} =$$

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

$$2\frac{3}{4} =$$

$$3\frac{4}{6} =$$

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

$$2\frac{5}{7} =$$

$$1\frac{7}{8} =$$

Find the decimal and percent to match each fraction. Color the squares to find the mystery picture.

$$\frac{1}{10} = 0.1 = 10\%$$

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

$$\frac{8}{10}$$
 =

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

$$\frac{3}{4} =$$

4						4						10		
0.5	50%	0.5	50%	0.25	0.1	10%	0.1	10%	0.1	25%	0.5	50%	0.5	50%
50%	0.5	25%	10%	0.1	10%	0.1	10%	0.1	10%	0.8	10%	0.25	50%	0.5
50%	0.25	0.1	10%	0.1	10%	0.1	0.1	10%	0.8	90%	80%	0.1	25%	50%
25%	10%	10%	0.9	90%	0.9	0.1	10%	80%	90%	0.9	90%	0.8	0.1	25%
10%	0.1	0.1	10%	0.1	10%	0.1	0.1	10%	0.8	0.9	0.8	0.1	10%	0.1
0.1	10%	75%	0.1	10%	0.1	10%	0.1	10%	0.1	80%	0.1	0.75	0.1	10%
10%	0.1	10%	0.1	10%	0.1	10%	0.1	10%	0.1	10%	0.1	0.1	10%	0.1
25%	10%	0.1	0.9	90%	0.9	90%	0.9	90%	0.9	90%	0.9	10%	0.1	0.25
50%	0.25	10%	0.1	0.9	90%	0.75	75%	0.75	90%	0.9	0.1	10%	25%	50%
0.5	50%	25%	10%	0.1	0.9	75%	0.75	75%	90%	0.1	10%	0.25	0.5	50%
50%	0.5	50%	0.25	10%	0.1	0.75	75%	0.75	0.1	10%	25%	50%	50%	0.5
0.5	50%	0.5	50%	25%	10%	75%	0.75	75%	10%	0.25	0.5	50%	0.5	50%

#43

Date

- 1 century = 100 years
- 1 decade = 10 years
- 1 common year = 365 days
- 1 leap year = 366 days
- 1 year = 52 weeks

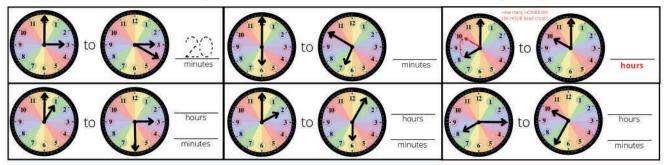
1 year = 12 months

- 1 week = 7 days
- 1 day = 24 hours
- 1 hour = 60 minutes
- 1 minute = 60 seconds

Convert these units of time:

2 years = ____ weeks

How much time has elapsed between each set of clocks? (4.43)



How much time has elapsed? Draw the start and end times on the clocks. (2.58)

Your flight leaves at 9:10 AM and arrives at 2:30 PM. How long is your flight?



time	hours	minutes
9:10 AM 0:00 am	2	50
noon 2:00 pm 2:30 PM	2	30
2:30 PM	hour an	d 80

The movie starts at 10:30 PM and ends at 1:05 AM. How long is the movie?



time	hours	minutes
10:30 PM	1	
1:05 AM		

___ hours and ____ minutes

Complete this chart. Round decimals to the hundredths place and just use whole number percents. (4.41)

Is the denominator a factor of 10 or 100?

Yes use the butterfly method No divide the numerator by the denominator

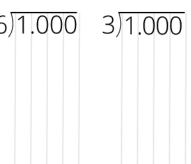


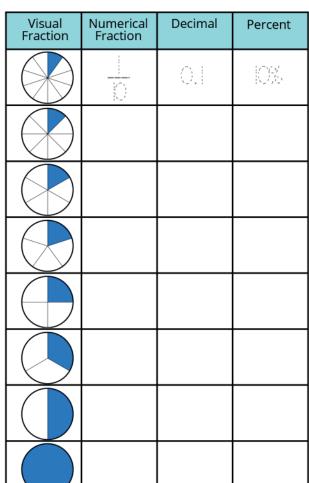




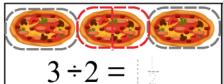
8)	round to the hundredths place. more 15 or cled digitation of the hundredths place. more 15 or cled digitation of the hundredths place. The hundredths place in the hundredths place in the hundredths place. The hundredths place in the hundredths place in the hundredths place. The hundredths place in the hundredths place in the hundredths place. The hundredths place in the hundredths place in the hundredths place in the hundredths place. The hundredths place in	et the it soar, et the git rest
	20	



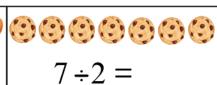




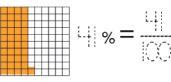
Divide each set into equal halves by drawing lines around groups. Split any leftover in HALF between the two groups. How many are in each group? (2.45)







Each block has 100 squares. Color the squares to illustrate each percentage equation and fill in any missing parts of each equation. (4.40)



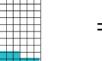


















How much money is this? Write each amount in cents, then in dollars. Plot each number on the number line, then round to the nearest TEN. (4.11) Rounding to the nearest ten? Circle the TENS place, then underline the number in the ONES place. 17 ____ 8 ___ Four or less: Let it soar. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 28 28 29 30 31 22 33 24 35 36 37 38 39 40 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 58 60 Round to the nearest HUNDRED: Rounding to the nearest hundred? Circle the HUNDREDS place, then underline the number in the TENS place. 150 200 Five or more? Let the 6 soar (round up to 7). 125 ____ 551 399 333 549 605 228 590 Round to the nearest THOUSAND: Rounding to the nearest thousand? Circle the THOUSANDS place, then underline the number in the HUNDREDS place. 875 000 Five or more? Let the 0 soar (round UP to 1). 213 382____ 2939 2812 998 _____ 2530 1827__ 1550 1344 _____ 1315 000 Four or less? Let the 1 rest. 84

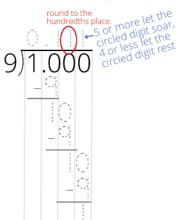
Date

#44

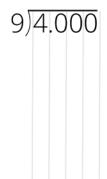
Complete this chart. Round decimals to the hundredths place and just use whole number percents. (4.41)

Is the denominator a factor of 10 or 100?

Yes use the butterfly method No divide the numerator by the denominator



9)2.000



9,7.000

Visual Fraction	Numerical Fraction	Decimal	Percent
	o-	O.II)

7)	1.	00.	00	

7)2.000

7)3.000

7)4.000

7)5.000

of = timesHow much is 1/6 of 36?

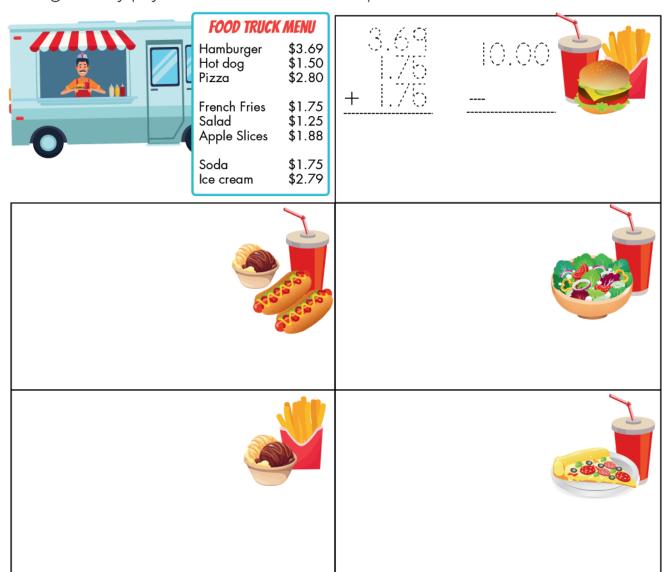


How much is 5/6 of 36?

How much is 1/6 of 48?

How much is 5/6 of 48?

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. Line up the decimals!



What number does x represent in each equation? (4.31)

$$10 - 2X = 4$$
 $X = ____$

$$5 + X = 12$$
 $X = ____$

$$9X = 72$$
 $X = ____$

$$25 - 2X = 5$$
 $X = ____$

$$X + X = 12$$
 $X = ____$

$$X + 3 = 10 \quad X$$

$$X + 3 = 10$$
 $X = ____$

$$10 - X = 6$$

$$0 - X = 6$$
 $X = ____$

$$2X - 1 = 19$$
 $X = ____$

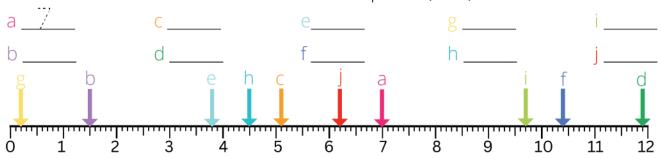
$$X = \underline{\hspace{1cm}}$$

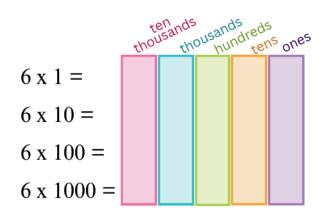
$$6X + 2 = 50 \quad X =$$

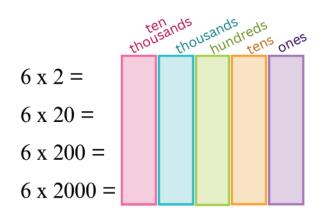
$$X = \underline{\hspace{1cm}}$$

$$14 - X = 6$$

To which decimal number does each arrow point? (4.35)







Draw lines to match the decimals and fractions. (4.34)

0.5 0.03 0.05 0.01 0.005 0.3 0.1 0.003 0.001

Let's make banana bread!

10 pounds of bananas cost \$5.50. What did they cost per pound?

1 dozen eggs costs \$4.20. What is the cost per egg?

This book is \$12.00 and sales tax is 10%. What is the total price?



If you pay with a \$20 bill, what is your change?

This sweater is \$39.00. Sales tax is 10%. What is the total price?

If you pay with a \$100 bill, what is your change?



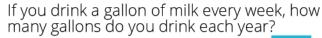
This laptop is \$395.00 and sales tax is 10%. What is the total price?



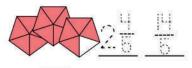
If your parents spend \$200 each week on groceries, how much do they spend each year?

If you make a new scrapbook every year for a decade, how many scrapbooks do you have?

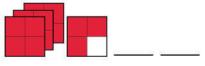
If your grandma is exactly half a century old this year, what year was she born?



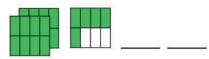
Name these fractions as mixed numbers and improper fractions. (4.25)













Convert these improper fractions to mixed numbers. (4.25)

$$\frac{25}{6} = \frac{1}{6}$$

$$\frac{13}{9} =$$

$$\frac{15}{2} =$$

$$\frac{12}{3} =$$

$$\frac{23}{7} =$$

$$\frac{19}{6} =$$

$$\frac{14}{4} =$$

$$\frac{17}{5} =$$

Find the sums and differences. Simplify. (4.20)

$$\frac{2^{10}}{3^{15}} + \frac{3^{9}}{5^{15}} = \frac{19}{15} = \frac{14}{15} + \frac{3^{9}}{4^{12}} - \frac{4^{4}}{3^{12}} = \frac{1}{2} + \frac{2}{3} = \frac{5}{6} - \frac{1}{2} = \frac{5}{6} = \frac{1}{2} = \frac{1$$

$$\frac{3^{9}}{4^{12}} - \frac{1^{4}}{3^{12}} =$$

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

$$\frac{5}{6} - \frac{1}{2} =$$

$$\frac{2}{3} - \frac{4}{9} = \frac{1}{4} + \frac{1}{5} = \frac{1}{4} + \frac{1}{3} = \frac{1}{4} + \frac{1}{4} + \frac{1}{3} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{1}{4} + \frac{1}$$

$$\frac{1}{4} + \frac{1}{5} =$$

$$1 - \frac{1}{4} =$$

$$\frac{1}{4} + \frac{1}{3} =$$

Find the sum or difference of these mixed numbers. (4.26)

$$1\frac{1}{3}$$
 + $4\frac{1}{6}$

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

$$2\frac{3}{8}$$
 + $2\frac{3}{4}$

$$4\frac{1}{4} + 3\frac{1}{4}$$

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

$$3\frac{2}{3} - 2\frac{1}{3}$$

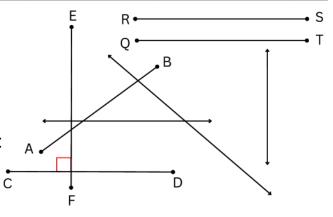
$$4\frac{5}{6}$$
 $-1\frac{2}{3}$

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

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

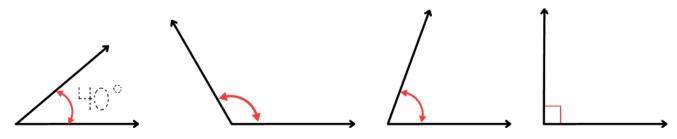
$$\begin{array}{r} 2\frac{2}{3} \\ -1\frac{1}{2} \end{array}$$

- Trace line segment AB orange.
 Trace the oblique LINE red.
 Trace the horizontal LINE green.
 Trace the vertical LINE yellow.
 Name the two perpendicular line segments:_____ and
- **6.** Name the two parallel line segments: _____ and



What angle do clock hands pointing to 3:00 make?

Use your protractor to measure each angle. Use units (degree).



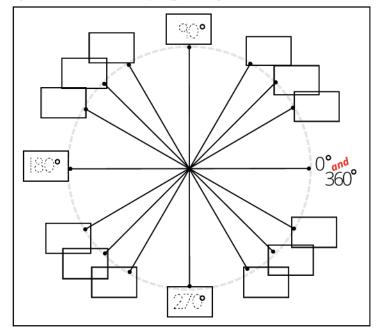
Draw:

Right Angle (include the small square)

Straight Angle Acute Angle

Obtuse Angle Reflex Angle

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



What number does x represent in each equation? (4.31)

$$15 - 3X = 15 X =$$

$$10 - X = 4$$
 $X = ____$

$$5 + X = 10$$
 $X = ____$

$$10X = 20$$
 $X =$

$$2X = 10$$
 $X =$

$$20X = 60$$
 $X =$

$$1 + X = 10$$
 $X =$

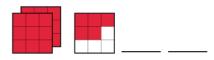
$$5X + 2 = 27 X =$$

$$X =$$

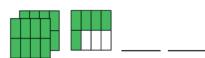
Name these fractions as mixed numbers and improper fractions. (4.25)











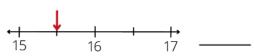


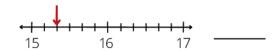
To which **mixed number** does each arrow point? (4.24)

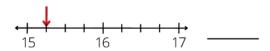












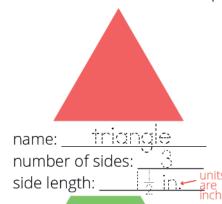
Use the number line to find each sum or difference. (3.58)



#49

Date

Measure a side of each polygon with a ruler to find the side length. Use units!



two names

names: _____ number of sides: _____ side length: _____

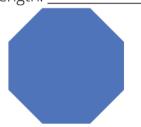


name: ______number of sides: _____

side length:



name: _____ number of sides: _____ side length: ____



name: _____ number of sides: _____ side length: _____



Polygons with four sides have two names:

name: _____ number of sides: _____ side length: _____

number of sides: _____

side length: _____

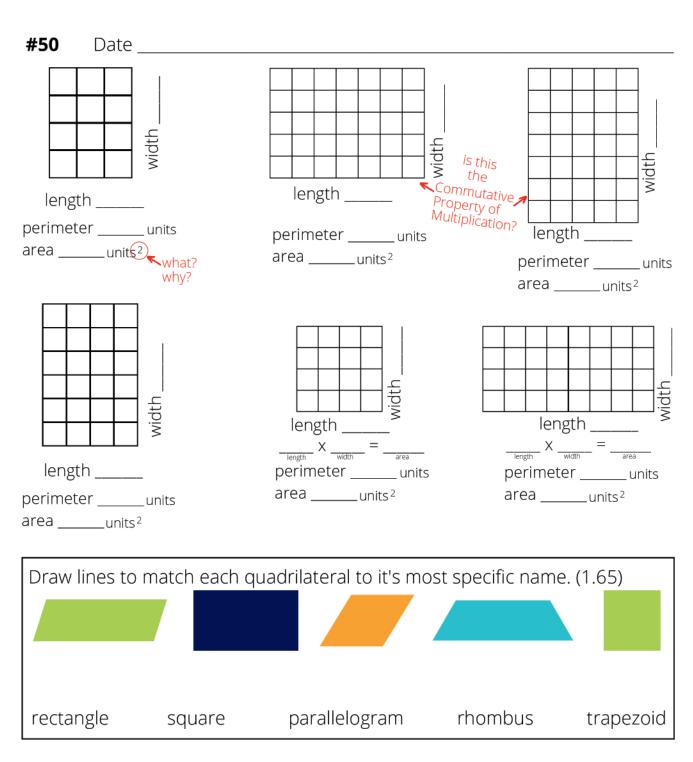
name:

name: _____ number of sides: _____ side length: _____

Write each **quadrilateral** term twice. (1.65) Match each term to its properties.

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

Complete this chart. Round the hundredths place and juwhole number percents. (4.4)	decimals to Ist use	Visual Fraction	Numerical Fraction	Decimal	Percent
Is the denominator a factor of 19 Yes use the butterfly method No divide to the der	0 or 100?		<u> </u>	0.11	11%
hundradths place more let the circled digit soar circled digit soar 4 or less let the 4 or less let trest circled digit rest	9)3.000				
9)5.000 9)6.000 9)7.0 -45 -60 -45 -60 -45	00 9)8.000				
Draw a HORIZONTAL line and a VERTICAL line to divide this square into FOURTHS. Use two OBLIQUE to divide this squainto FOURTHS.		lines to		S	de this
Use the time conversion tab of time. (4.43)	le in your refere	ence pag	es to con	vert thes	se units
2 centuries = years	3 hours = n	ninutes	6 m	onths =	year
5 decades = years	1/2 day =	hours	730	days =	years
3 days = hours	10 minutes =	_ second	s 30 n	ninutes = _	hour 93



Draw least 3 more polygons to complete this pattern. You may draw REGULAR or IRREGULAR polygons. Label each polygon with its name. (4.49)



Find the sums and differences. Remember to simplify! (4.20)

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

Stack the numbers, lining up the decimal points. Find the sum or difference. (4.39)

Do you prefer to work with fractions or decimals? Why?

What angle do clock hands pointing to 9:00 make?

Solve using the Order of Operations (PEMDAS). (3.83)

307 + 1) = ____ 3
$$^3 \div 9 =$$

 $6^2 - \sqrt{49} =$ ____ 9 + 18 \div 6 = ____
 $2(5 + 3) =$ ___ 12 \div 2 - 2 $^2 =$ ___
 $2 + 25 \div 5 =$ ___ $\sqrt{16} - 3 \times 2 =$ ___ 8 - $(56 \div 7) =$ __ 8 (4 + 3) = ___

Find the products. (3.61)

1320 x 2	32 x 3 x 2	19 2 x 4	47 x 3	5 257 2 x 4	118 x 3
	1320	3237	1531	3421	2114
	x 2	x 5	x 4	x 3	x 2

Word Form (use commas)	Standard Form
One billion, eight million, five thousand, two hundred	1,008,005,200
	81,302,007
	14,000,050,901
	901,012,011
Three hundred ten billion, twenty-two million, fifty thousand, one hundred	
Nineteen billion, three million, nine hundred	
	55,001,018
One billion, four million, five thousand, nine hundred fifty-three	
One hundred eight billion, eight	
	12,203,015

Draw lines to match the polygons across all three columns. (4.49)

8 sides		Octagon
6 sides	100 000 000 000 000 000 000 000 000 000	Pentagon
4 sides		Hexagon
10 sides		Decagon
7 sides		Triangle
9 sides		Quadrilateral
3 sides		Nonagon
5 sides 96		Heptagon

Divide the marbles into FIVE equal groups and color each a different color. (4.16)



$$\frac{30}{5}$$
 =

What is 1/5 of 30? What is 2/5 of 30? What is 4/5 of 30?

What is 3/5 of 30?

What is 5/5 of 30?

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



$$\frac{30}{6}$$
 =

What is 1/6 of 30?

What is 4/6 of 30?

What is 2/6 of 30?

What is 5/6 of 30?

What is 3/6 of 30?

What is 6/6 of 30?

Which fraction is 50% of the marbles?

Use a ruler to draw these line segments and angles. (4.48)

AB $\overline{\mathsf{CD}}$ ŌĠ

uР fh gi

bd EV

em $\overline{\mathsf{LH}}$

mH $\overline{\mathsf{MR}}$ KS Ke cT

Ma $\overline{\mathsf{X}\mathsf{Y}}$

Īo

Yo pr

 $\angle AZC$ ∠UQF

∠pNt

QOuGf

g

Ż Ď Ů Ř P Ř Î V L

E K S

a X M

b• •d e• •m c•

Ĥ

Ř

Solve. Remember of means times. (of = x) What is 50% of 28? $\frac{20}{100} \times 28 = \frac{20}{2} = \frac{10}{100} \times 20 = \frac{10}{100} \times 20 = \frac{20}{100} = \frac{20}{100}$

What is 50% of 44?

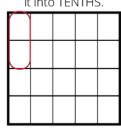
What is 50% of 50?

What is 50% of 36? What is 20% of 20? What is 50% of 12?

What is 50% of 20? What is 60% of 20?

What is 100% of 20?

This square has twenty pieces. Divide it into TENTHS.



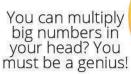
Ň



Date

$$\frac{30}{x}$$
 two zeros







Multiply mentally.

You earn \$5.00 each time you walk your neighbors dogs. If you walk them every day in April, how much money did you make? (solve mentally)

If you walk them every day in May, how much money did you make?



If it takes you twenty-five minutes to walk the dogs and you start at 8:30 am, what time will you be finished?

What is seven squared minus the quantity of three squared plus one? Ten, twice, is how much less than five squared?

Trace the existing numbers, fill in the missing numbers and color the squares with EVEN numbers yellow. (3.1)

9,996		10,002	

Find the sums and differences. Remember to simplify! (4.20)

$$\frac{23}{26} + \frac{12}{36} = \frac{5}{6} = \frac{3}{4} - \frac{1}{8} = \frac{1}{5} + \frac{2}{3} = \frac{7}{8} - \frac{1}{2} = \frac{1}{3} + \frac{1}{4} = \frac{1}{3} +$$

$$\frac{3}{4} - \frac{1}{8} =$$

$$\frac{1}{5} + \frac{2}{3} =$$

$$\frac{7}{8} - \frac{1}{2} =$$

$$\frac{1}{3} + \frac{1}{4} =$$

Find the products. Multiply fractions straight across. Always simplify! (4.22)

$$\frac{5}{8} \times \frac{1}{5} = \frac{1}{3}$$

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

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

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

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

$$\frac{1}{3} \times \frac{3}{4} =$$

$$\frac{3}{4} \times \frac{2}{3} =$$

$$\frac{1}{4} \times \frac{4}{5} =$$

Find the quotients. Always simplify! (4.23)

Never divide by a fraction, instead multiply by the reciprocal.

$$\frac{1}{2} * \frac{\sqrt{3}}{3} = \frac{3}{2} = \frac{1}{2} \frac{1}{3} \div \frac{1}{3} =$$

$$\frac{1}{3} \div \frac{1}{3} =$$

$$\frac{3}{4} \div \frac{1}{4} =$$

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

How many times will 1/4 fit inside 1/2?

$$\frac{4}{6} \div \frac{1}{3} =$$

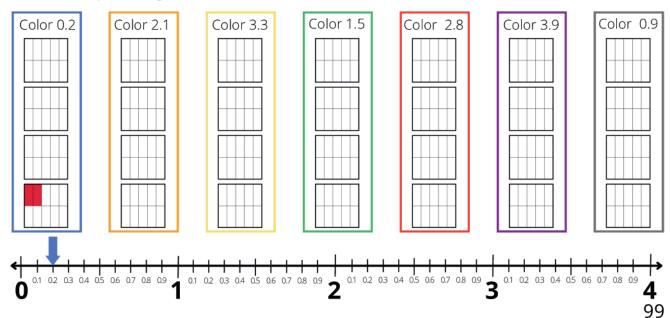
$$\frac{1}{4} \div \frac{1}{2} =$$

$$\frac{1}{2} \div \frac{1}{8} =$$

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

How many times will 1/6 fit inside 2/3?

Color the decimal number in each colored rectangle. Then draw an arrow that color pointing to the number on the number line below. (4.35)



What is the average number of days in the months of the year?

What is the total number of days in the first three months of a leap year?

The paint store tracks how much paint each customer buys. The customers on Saturday purchased: 5 gallons, 1 gallon, 5 gallons, 6 gallons and 3 gallons. How many gallons of paint was the average purchase?

When Kate is born, Henry is two-years old and Jack is four times Henry's age. How old are Henry and Jack on Kate's second birthday?

How old will Jack and Henry be when Kate turns 20-years-old?

Three fourths of the one thousand rocks we collected were igneous. How many rocks were igneous? (illustrate the problem)

The rest of the rocks were sedimentary. What percent of the rocks were sedimentary?

Word Form (4.8)	Standard Form
Three hundred nine billion, one million, forty-five	309,001,000,045
Forty-three million, one hundred thousand, seventeen	
	50,018,100,099
Six hundred sixty billion, twelve million, nine thousand one	
	812,005,078,192
Seven hundred sixteen billion, thirty-five million, nine	

Stack the numbers, lining up the decimal points. Find the sum or difference. (4.39)

Find the products (3.65).

If 3 pies cost \$14.67, how much would 5 pies cost?



Your mom bought 5 pounds of apples for \$1.59 per pound, 12 oranges for 65 cents each, ketchup for \$3.49 and 3 gallons of milk for \$3.98 each. What did she spend on groceries?



You made three types of cookies. One batch made 2 dozen cookies. One batch made 18 cookies and one batch made 3 dozen cookies. What was the average number of cookies in each batch?



Picking a green candy _____

Picking a yellow candy _____

Picking a red candy _____

Picking a purple candy _____

Picking a blue candy _____

Picking either a green or red candy _____

Picking either a green or yellow candy _____

Which candy is least likely to be picked? _____

Which is most likely to be picked? _____

Is it more likely to pick purple or red? _____

You went bowling with 4 friends. You all bowled 3 games. Here are the scores.

Find each person's average and complete the table.

What is the average score of all of the bowlers in your group?



Jack and Jill Bowling Game Scores					
	#1	#2	#3	average	
You	175	199	202		
James	189	145	215		
Savannah	133	151	121		
Cortney	124	118	139		
Levi	117	128	124		

Unscramble the Greek prefixes then write the number of sides of a polygon each represents. (4.49)

haex

tapen_____

toca_____

anon_____

treat_____

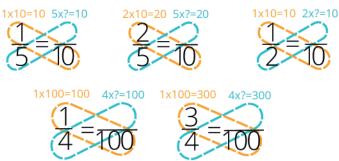
cade ______ 102

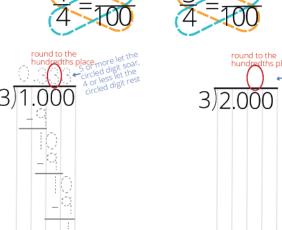
thape_____

Complete this chart. Round decimals to the hundredths place and percents to whole numbers. (4.41)

Is the denominator a factor of 10 or 100?

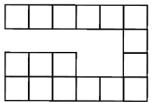
Yes use the butterfly method No divide the numerator by the denominator

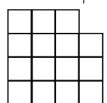


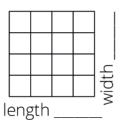


Visual Fraction	Numerical Fraction	Decimal	Percent
		O.	10%

Find the perimeter and area of each shape (4.50)







perimeter _____units area ____units²

perimeter _____units area ____units²

perimeter ____ units
area ____ units²

You watched one hour of TV and timed the commercials. They took up two tenths of the time. How many minutes was that?

What percent of the time did the commercials take?



Your basketball coach keeps this chart to track the progress of your team.

Shooting Stars Season 3 Individual scores per game						
(team score us/them)) you	Elijah			Caleb	Nathan
Game 1: 12/16	2	4	2	2	2	0
Game 2: 14/16	4	2	2	2	4	0
Game 3: 18/10	2	4	4	2	2	4
Game 4: 24/12	7	2	6	3	2	4
Game 5: 20/14	5	3	4	2	4	2

What was your mean score for the first five games?

What was Nathan's mean score for the first five games?

What was Elijah's mean score for the first five games?

What was your team's mean score for the first five games?

What percent of the games did your team win?

What percent of the games did your team lose?

Which player on your team is the most likely to score points?

Who on your team is the least likely to score points?

What is the range of your team's scores?

What is your team's median score?

Which individual score is clearly the mode?

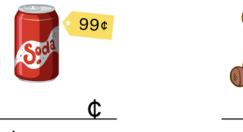
Trace then write each term, then draw a line to match each term to its definition.

- average
 chance
 probability
 median
 mode
- the middle number when a set of values is arranged from smallest to largest.
- The number that appears most frequently.
- Also known as the mean, we add all of the addends, then divide the SUM by the number of addends.
- The distance between the highest and the lowest numbers.
- The likelihood that something will happen, stated as a fraction.
- The likelihood that something will happen, stated as a percentage.



How much change will you receive if you pay for each item with \$5.00? Write

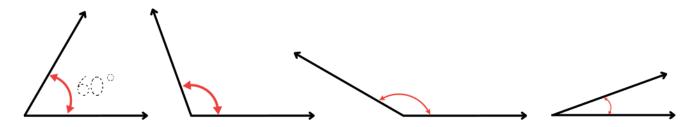
each amount using a cent sign then a dollar sign. (3.18)







Use your protractor to measure each angle. Use units (degree). (4.48)



Solve using the Order of Operations (PEMDAS). (4.6)

$$5^2 - 2 \times 9 =$$

$$2 + 3^2 =$$

What is the probability that this spinner will stop on a number greater than 4?



This deck of 48 cards has twelve card of each color. If you grab one card, what is the probability it will be green?



\$3.21

If you roll a number cube (numbered 1-6) once, what is the probability you will roll a SQUARED number?

What is the chance?

Find the products.

3 X	53



10x23

Solve for x (get x alone) (4.30): Show your work beneath each problem, then check your answers.

$$4X + 1 = 7^{2}$$
 UNDO everything that has been done to the X - subtract one from both sides

$$X(8 - 1) = 56$$

$$3 + 6X = 45$$

 $\mathbb{E}[X] = \mathbb{E}[S]$ simplified equation

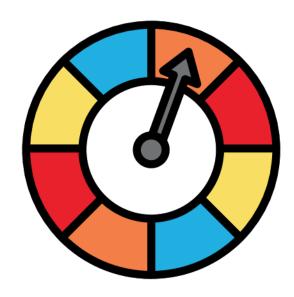
i... divide both sides by four to get x alone

$$\times = 2$$
 check. 4(12) + 1 = 7^2 true!

$$X^2 - \sqrt{9} = 22$$

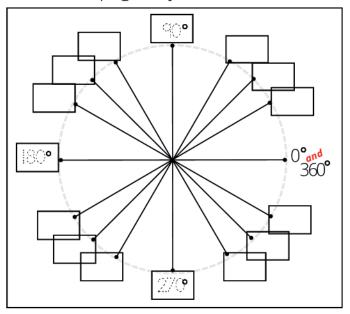
$$3(X - 5) = 2 \times 6$$

$$\sqrt{9} + X = 2^2$$



What is the probability of: (4.54) Landing on an orange space _____ Landing on a red space _____ Landing on a blue space _____ Landing on a yellow space _____ Landing on yellow or blue spaces _____ Landing on red or orange spaces _____ Which color is the most likely? _____

Fill in the boxes around this circle with the correct angle measurements. Use your reference pages if you need to. (4.48)



Draw:

Right Angle (include the small square)

Acute Angle Straight Angle

Obtuse Angle Reflex Angle

$$4^2 - 2 \times 4 = 8$$

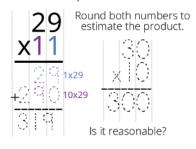
$$2 - \sqrt{16} \div 2 =$$

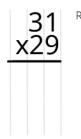
Fill in the blanks to complete each chart.

	x 10	x 100	x 1000
5			
3			
9			

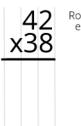
	x 20	x 200	x 2000
5			
3			
9			

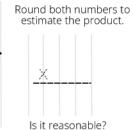
Find the products.





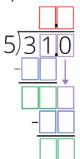


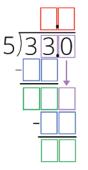




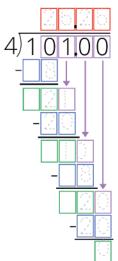
Find the quotients. (4.38)

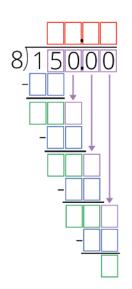


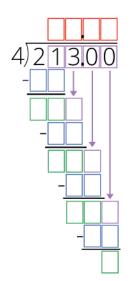


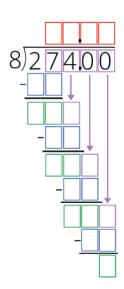












What is the probability of: (4.54)

Picking a pencil _____

Picking a pen _____

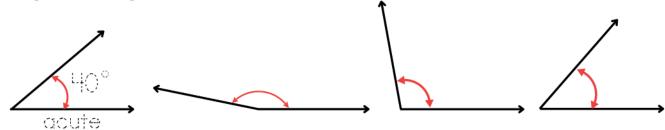
Picking an eraser _____

Picking a sharpener _____

Are you more likely to choose a pencil or pen? Are you more likely to choose an eraser or a sharpener? _____



Use your protractor to measure each angle. Use units (degree). Label each angle acute, right or obtuse. (4.48)



Draw lines to match the word form to the standard form. (4.8)

One hundred forty-seven billion, three hundred seventy-two, one thousand

Seven billion, one million, one thousand, one hundred

Four hundred three billion, thirty-four • million, four hundred thousand, three

Fifty billion, eighteen million, one ● hundred thousand, ninety-nine

Nine million, one hundred thousand •

One million, nine hundred thousand •

Six trillion, ten billion, six hundred million, ● ten thousand

Eighty-one trillion, eighty-one million, • eighteen

• 50,018,100,099

• 6,010,600,010,000

• 7,001,001,100

• 1,900,000

• 403,034,400,003

147,372,001,000

• 9,100,000

• 81,000,081,000,018

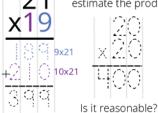
#59

Date

Find the products.

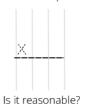


Round both numbers to estimate the product.





Round both numbers to estimate the product.

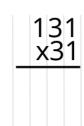




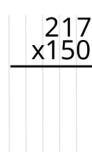
Is it reasonable?

Round both numbers to

x18



	′'	•	_		
		2	8	0	2x140
	1	2	0	0	30x140
+	Ц	0	0	0	100x140
_	8	Ц	8	0	



X	2	1	1 8	

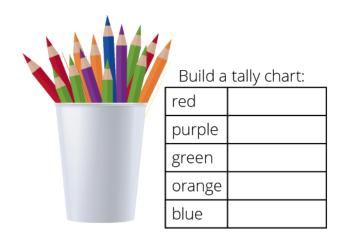
Write each of the products from the row above in their word form. (4.8)

Eighteen thousand, four hundred eighty

If 3 apples cost \$0.99, how much would 8 apples cost?



How many 1 square foot floor tiles are needed to cover a bathroom that is 12 feet long and 14 feet wide?

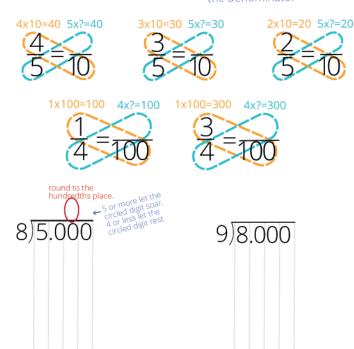


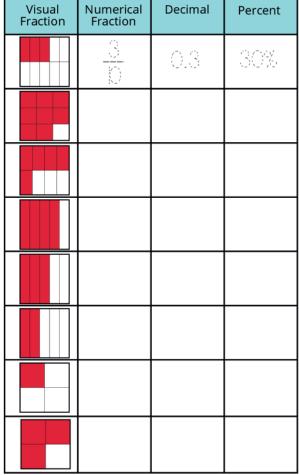
If you close your eyes and choose a pencil randomly, what is the probability of: (4.54)
Picking a red
Picking a green
Picking a blue
Picking an orange
Picking a purple
Which color is least likely to be picked?
Which color is most likely to be picked?

Eight, twice, is how much more than four squared?
What is 5 more than the square root of 25?

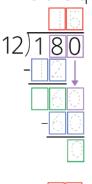
Complete this chart. Round decimals to the hundredths place and percents to whole numbers. (4.41)

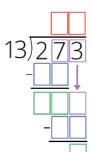
Is the denominator a factor of 10 or 100?
Yes use the butterfly method No divide the numerator by the denominator

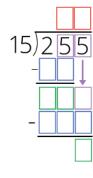


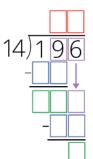


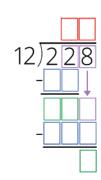
Find the quotients.

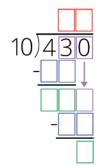




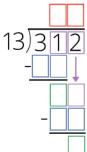




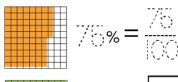


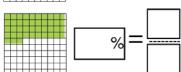


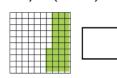


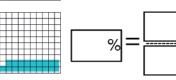


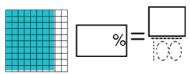
Each block has 100 squares. Write each percentage and each fraction with a denominator of 100 (Per CENT). (4.40)

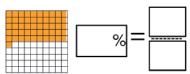




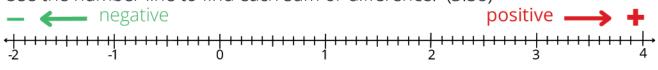








Use the number line to find each sum or difference. (3.58)



Find the sums and differences. Remember to simplify! (4.20)

$$\frac{1}{8} + \frac{12}{48} = \frac{3}{8}$$
 $\frac{1}{4} + \frac{1}{3} = \frac{2}{3} - \frac{1}{3} = \frac{4}{7} - \frac{1}{7} = \frac{1}{4} + \frac{1}{4} = \frac{1}{4} = \frac{1}{4} + \frac{1}{4} = \frac{$

$$\frac{1}{4} + \frac{1}{3} =$$

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

$$\frac{4}{7} - \frac{1}{7} =$$

$$\frac{1}{4} + \frac{1}{4} =$$

Stack the numbers, lining up the decimal points. Find the sum or difference. (4.39)

Find the products. Multiply fractions straight across. Always simplify! (4.22)

$$\frac{3}{4} \times \frac{1}{3} = \frac{1}{1}$$

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

$$\frac{2}{5} \times \frac{1}{2} =$$

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

One third OF three fourths

One half OF two fifths

One fourth OF one fourth

Find the quotients. Always simplify! (4.23)

Never divide by a fraction, instead multiply by the reciprocal.

$$\frac{1}{4} * \frac{1}{3} = \frac{3}{4}$$

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

$$\frac{6}{8} \div \frac{1}{4} =$$

$$1 \div \frac{1}{4} =$$

How many times will 1/3 fit inside 1/4?

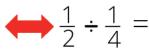
How many times will 1/3 fit inside 1/2?

How many times will 1/4 fit inside 6/8?

How many times will 1/4 fit inside 1?

$$\frac{5}{6} \div \frac{1}{4} =$$

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



How many times will 1/4 fit inside 5/6?

How many times will 1/2 fit inside 1/4?

How many times will 1/4 fit inside 1/2?

Use words to write each number. (4.8)

1349.3 One thousand, three hundred forty-nine and three tenths

7258.1

You built 24 cars from blocks, but you could only find wheels for one third of them (each car has 4 wheels). How many of those cars have wheels? Draw a picture.

How many wheels did you use?

How many wheels do you need to finish all of the cars you built?

Draw pictures to solve these problems.

Your sister swims 20 laps every day. How many laps does she swim in a week?

Your mom drives 70 miles per hour. How far does she drive in 6 hours?

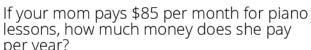


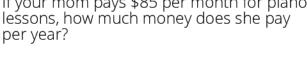


If you run 7 miles per hour, how far can you run in 3 hours?



You can jump the rope 45 times in one minute. How many times can you jump in 8 minutes?



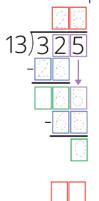


Your family eats four loaves of bread per week. How many do they eat per year?

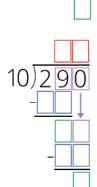




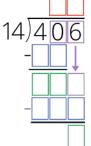
Find the quotients. (4.60)

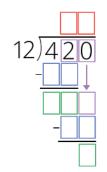


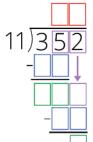
15 6 4 5

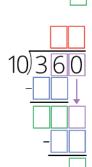


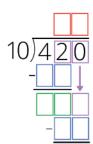
12)324

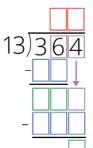




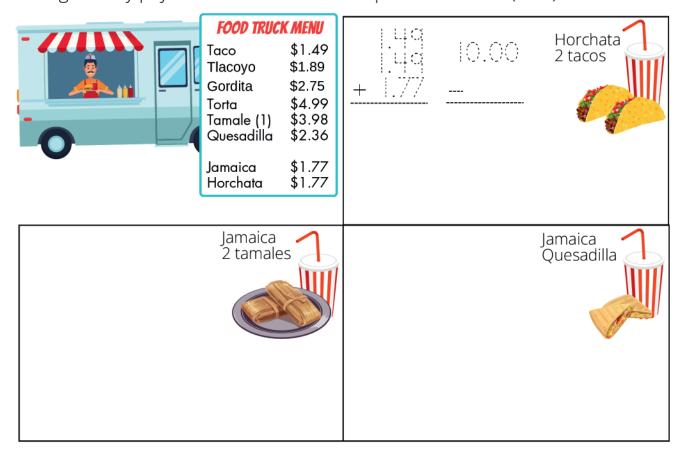




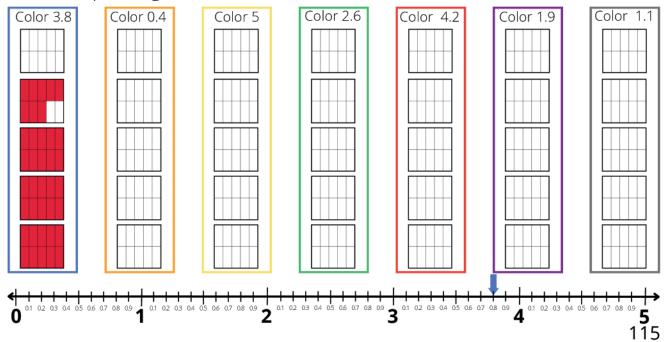




Use the menu prices to add up the cost of each meal. Find each customer's change if they pay with a \$10.00 bill. Line up the decimals! (4.39)



Color the decimal number in each colored rectangle. Then draw an arrow that color pointing to the number on the number line below. (4.35)



Draw pictures to solve these problems.

Your mom hands out 6 vitamins every morning. The bottles she buys have 180 vitamins each. How many bottles does she buy each year?

If each bottle of vitamins from the problem to the left costs \$35.99, how much does your mom spend on vitamins each year?



If you can ride your bike 75 miles in 5 hours, what is your average rate of speed per hour? (use units)



Johnny planted 5 rows of apple trees with 6 trees in each row. Each tree produced 12 bushels of apples. How many bushels of apples did Johnny harvest?



One third of the 24 elephants were African elephants. The rest were Asian elephants. How many were there of each type?



Math is the favorite subject of seven eighths of the 56 kids we interviewed. How many kids' favorite subject is math?

What length are the following items in cm? Write the units.

 Draw and shade rectangles to find each improper fraction. (4.25)

$2\frac{3}{8} = \frac{14}{8}$	1 3/4 =	2 1 / ₄ =
1 7/8 =	3 5 =	$4\frac{1}{8} =$

Find the products. Always simplify! (4.22) Simplify BEFORE multiplying whenever you can

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

$$\frac{1}{5} \times \frac{3}{5} =$$

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

$$\frac{1}{4} \times \frac{4}{5} =$$

$$\frac{1}{3} \times \frac{3}{5} =$$

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

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

$$\frac{3}{5} \times \frac{5}{6} =$$

Find the quotients. Always simplify! (4.23)

Never divide by a fraction, instead multiply by the reciprocal.

$$\frac{3}{5} * \frac{15}{5} = \frac{15}{5} = 3$$
 $\frac{1}{4} \div \frac{3}{4} = \frac{4}{5} \div \frac{1}{4} = \frac{1}{2} \div \frac{1}{4} = \frac{1}{2}$

$$\frac{1}{4} \div \frac{3}{4} =$$

$$\frac{4}{5} \div \frac{1}{4} =$$

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

$$\frac{5}{8} \div \frac{1}{4} =$$

$$3 \div \frac{1}{3} =$$

$$\frac{1}{6} \div \frac{1}{6} =$$

$$\frac{5}{8} \div \frac{1}{4} = 3 \div \frac{1}{3} = \frac{1}{6} \div \frac{1}{6} = \frac{9}{10} \div \frac{3}{5} =$$

You bought 3 notebooks for \$1.99 each. Sales tax is 10%. You paid with a \$10 bill. How much change did you get back?



A phone plan costs \$15 per month. How much does it cost per year?



If your mom was born in 1995, how oldawill she be this year?



If you received twice as many votes as your sister and she received 12 votes, how many votes did you receive?



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



You can earn 5 cents per soda can you collect and take to the recycler. You need to earn \$5.75 to pay your library fines. You already have 25 cans. How many more soda cans do you need to collect?

If you read 315 pages last week, how many pages did you AVERAGE per day? If you keep up your average, how many pages will you read in January?

A cow gives 6 gallons of milk per day. How many gallons of milk does she give every year (a regular year, not a leap year)?



Solve using the Order of Operations (PEMDAS). (4.6)
Step 1. Solve inside the parentheses

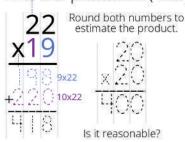
$$6^2$$
 - 9 x 2 = _____

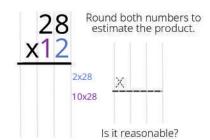
 $(13 - 9) \div 2 = ____$

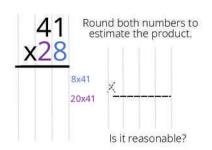
$$3 + 3 \times 3 - 2 =$$

$$\sqrt{49}$$
 + (5 - 2) = ____

Find the products. (4.57)







1 foot = 12 inches

1 yard = 3 feet

5280 feet = 1 mile

Convert these **US Customary** units of length. (3.20)

1000 mm = 1 m

100 cm = 1 m

1000 m = 1 km

Convert these **metric** length units. (3.20)

$$2 \text{ m} = \underline{\hspace{1cm}} \text{mm}$$

$$3000 \text{ mm} = ___ \text{m}$$

$$500 \text{ cm} = ___ \text{m}$$

$$2000 \text{ m} = ___ \text{km}$$

#64

Date

12 in = 1 ft

$$3 \text{ ft} = 1 \text{ yd}$$

5280 ft = 1 mi

Convert these **US Customary** units of length.

7 yd = ____ ft 7 yd
$$\left(\frac{3 \text{ ft}}{1 \text{ yd}}\right)$$
 = 21 ft

3 mi = _____ ft 3 mi
$$\left(\frac{5280 \text{ ft}}{1 \text{ mi}}\right)$$
 =

48 in = _____ ft 48 in
$$\left(\frac{1 \text{ ft}}{12 \text{ in}}\right)$$
 =

5280 ft = _____ yd 5280 ft
$$\left(\frac{1 \text{ yd}}{3 \text{ ft}}\right)$$
 =

2 mi = _____yd 2 mi
$$\left(\frac{5280 \text{ ft}}{1 \text{ mi}}\right)\left(\frac{1 \text{ yd}}{3 \text{ ft}}\right)$$
 =

Can you multiply by one, TWICE?

$$3 \times 1 \times 1 = 3$$

1000 mm = 1 m

100 cm = 1 m

1000 m = 1 km

Convert these metric length units.

75 m = _____ mm
$$^{75 \text{ pr}} \left(\frac{1000 \text{ mm}}{1 \text{ pr}} \right) = 75000 \text{ mm}$$

80 cm =
$$\underline{\qquad}$$
 m 80 cm $\left(\frac{1}{100}\right)$ = $\frac{80}{100}$ m = 0.8 m

91 km = _____ m 91 km
$$\left(\frac{1000 \text{ m}}{1 \text{ km}}\right)$$
 =

$$45 \text{ cm} = \underline{\qquad} \text{m} \quad 45 \text{ cm} \left(\underline{\qquad} \frac{\text{m}}{\text{cm}} \right) =$$

103 m = ____ cm
$$103 \text{ m} \left(\frac{1 \text{ cm}}{\text{m}} \right) =$$

$$2 \text{ m} = \underline{\qquad} \text{mm} \qquad 2 \text{ m} \left(\underline{\qquad} \frac{\text{mm}}{\text{m}}\right) =$$

$$17 \text{ km} = \underline{\qquad} \text{m} \quad 17 \text{ km} \left(\underline{\qquad} \frac{\text{m}}{\text{km}} \right) =$$

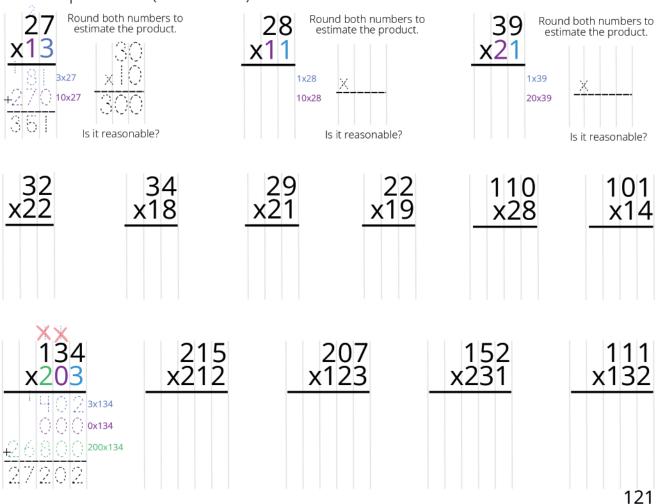
321 cm = ____ m 321 cm
$$\left(\frac{1 \text{ m}}{\text{cm}}\right)$$
 =

14 m = ____ km
14
 m $\left(\frac{1}{m}\right)$ = 120

Circle the correct answer.

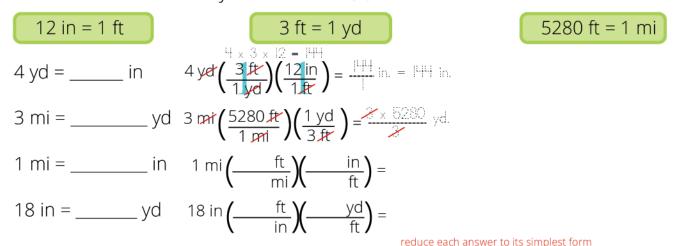
1 cm	longer than / shorter than / the same as	1 m
5 cm	longer than / shorter than / the same as	50 mm
10 mm	longer than / shorter than / the same as	100 cm
1 m	longer than / shorter than / the same as	100 mm
1 km	longer than / shorter than / the same as	1000 m
2 km	longer than / shorter than / the same as	200 m
25 cm	longer than / shorter than / the same as	25 mm
1000 cm	longer than / shorter than / the same as	1 km

Find the products. (4.57 & 4.59)



#65	Date	
Measur Remem	e each item in both in. and cm. Write am ber to start from zero on both sides of t	nounts in fractions or decimals. the ruler. length in.
ախփակակ		Cm.
1 2 3		21 22 23 24 25 26 27 28 29 30
		length in. cm.
5.5		6 8 L 9 S + E 7 L 1 22 23 24 25 26 27 28 29 30
	ik ma ara maliki lara kan kankira kan kan kankan ara maliki ara kan kan kan kan ara sa sa sa sa sa sa sa sa s	lengthin.
ախուսարդ		
0 E 5 Z 8 Z		7 1 1 01 6 8 L 9 S + E 7 L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
րկուհուկու <u>ի</u>		
Use a ru Use dec	uler to measure these line segments in c cimals.	customary and metric units.
		<u>4 in. 10 cm.</u>
(

Sometimes there is no direct conversion, so you have to use TWO conversion factors to reach the unit you need. (Multiply by one, TWICE!)



Convert to the BASE UNIT (meter) and then to the desired unit. (Multiply by one, TWICE, if needed)

kilo	hecta	deca	base unit	deci	centi	milli
1000 m = 1 km	100 m=1 hm	10 m = 1 dam	meter	1 m = 10 dm	1 m=100 cm	1 m = 1000 mm
90000 mm =	km 90	0000 mm (<u>1 r</u>	or orm)(<u>1 km</u> 1000 or	- - - 	$\frac{q}{2} = \frac{q}{100}$ km. =	0.09 km.

52 cm = ____ mm 52 cm
$$\left(\frac{1 \text{ m}}{100 \text{ cm}}\right) \left(\frac{1000 \text{ mm}}{1 \text{ m}}\right) =$$

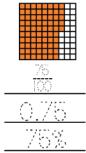
$$3900 \,\mathrm{m} = \underline{\qquad} \,\mathrm{km} \qquad 3900 \,\mathrm{m} \left(\underline{\qquad} \,\mathrm{km}\right) =$$

We only need one unit fraction to go from m to km.

Do you see the pattern?

Multiply by 10 for each box you move to the right; divide by 10 for each box you move to the left. Multiplying by 10 moves the decimal place one digit to the right. Dividing by 10 moves the decimal place one digit to the left.

Write these shaded parts as fractions, decimals and percentages. (4.41)











#66

Date

Convert these US Customary Units.



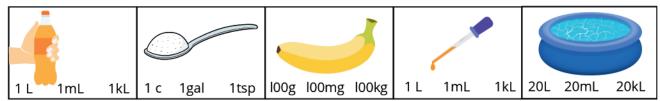
$$2 \text{ Tbsp} = \underline{\hspace{1cm}} \text{tsp} \qquad 5 \text{ gal} = \underline{\hspace{1cm}} \text{qt}$$

1
$$qt =$$
____ c 20 $c =$ ___ gal ___ qt

$$16 \text{ oz} = \underline{\hspace{1cm}} \text{c} \qquad 160 \text{ oz} = \underline{\hspace{1cm}} \text{gal} \underline{\hspace{1cm}} \text{qt}$$

$$8 \text{ pt} = ___ \text{gal} \qquad 6 \text{ qt} = ___ \text{gal} ___ \text{c}$$

Circle the best estimate of the volume of each item.

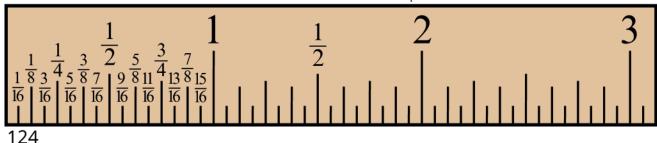


Convert to the BASE UNIT (liter) and then to the desired unit.



	kilo	hecta	deca	base unit	deci	centi	milli
	1000 L=1 kL	100 L=1 hL	10 L = 1 daL	liter	1 L=10 dL	1 L = 100 cL	1 L = 1000 mL
	17 L =	_ dL		3 daL = <u>30</u>	<u>)()</u> dL 3 dat	$\left(\frac{10 k}{1 \text{ dat}}\right) \left(\frac{10 \text{ dL}}{1 k}\right) =$	<u>3×10×10</u> =300dL.
(900 L =	kL		8 dL =	_ mL ^{8 dL} (1L 10dL)(1000 mL	$=$ $\frac{8 \times 100\%}{100}$ $=$
1	300 hL =	L		5 hL =	_ cL ^{5 hL} ((<u> </u>	<u></u>
	1000 kL = _	L		97000 mL :	= L ⁹⁷⁰	000 mL(l	_)=

Label each vertical line on this ruler. Use the simplest form of each fraction.



Multiply mentally. (4.52)

20 x 40 30 x 70 50 x 60 700 x 400

400 x 300 800 x 400

This rocket is \$17.00 and sales tax is 10%. What is the total price? (4.46)



+ sales tax 10% OF \$17.00 =

total price

If you pay with a \$20 bill, what is your change?

This squishmallow is \$35.00. Sales tax is 10%. What is the total price?



+ (sales tax 10% OF \$35.00)

total price

If you pay with a \$100 bill, what is your change?

This TV is \$595.00 and sales tax is 10%. What is the total price?



total price

Solve these word problems. (4.26)

I bought two boxes of eggs. Each had five dozen eggs. How many eggs did I buy?

I have 15 chickens. They each lay one egg per day. Three of them lay green eggs, the rest of them lay brown eggs. How many brown eggs do I get each week?



How many green eggs do I get each week?



I have a sack of 25 red and white marbles. Two fifths of the marbles are white.

How many marbles are white?

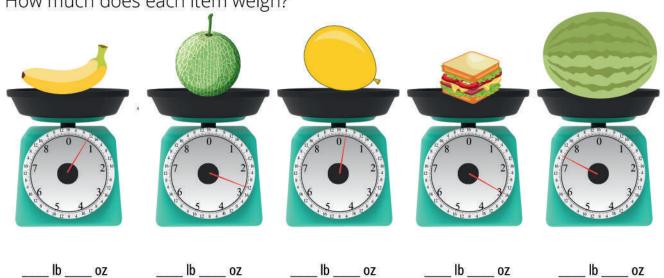
How many marbles are red?



The library is selling their old books for \$0.25 each. How many books can I buy if I have \$5.00?



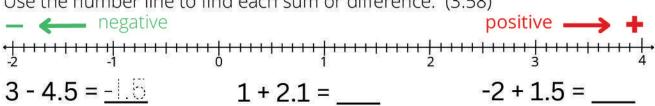
How much does each item weigh?



What is the mass of each item? JUICE

Use the number line to find each sum or difference. (3.58)

____ kg ___ g



___ kg __ g ___ kg __ g ___ kg __ g

__ kg ___ g

Find the sums and differences. Remember to simplify! (4.20)

$$\frac{\cancel{14}}{\cancel{312}} + \frac{\cancel{13}}{\cancel{412}} = \frac{\cancel{7}}{\cancel{2}} + \frac{\cancel{3}}{\cancel{8}} = \frac{\cancel{2}}{\cancel{3}} - \frac{\cancel{1}}{\cancel{6}} = \frac{\cancel{4}}{\cancel{5}} + \frac{\cancel{1}}{\cancel{10}} = \frac{\cancel{1}}{\cancel{3}} - \frac{\cancel{1}}{\cancel{5}} =$$

$$\frac{1}{4} + \frac{3}{8} =$$

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

$$\frac{4}{5} + \frac{1}{10} =$$

$$\frac{1}{3} - \frac{1}{5} =$$

Stack the numbers, lining up the decimal points. Find the sum or difference. (4.39)

Find the products. Multiply fractions straight across. Always simplify! (4.22)

$$\frac{1}{5} \times \frac{5}{10} = \frac{1}{10}$$



$$\frac{4}{5} \times \frac{1}{4} =$$

One half (five tenths) OF one fifth is One tenth







Find the quotients. Always simplify! (4.23)

Never divide by a fraction, instead multiply by the reciprocal.

$$\frac{1}{2} * \frac{\sqrt{4}}{\sqrt{4}} = \frac{4}{2} = 2$$
 $\frac{1}{2} \div \frac{1}{8} =$

$$\frac{1}{2} \div \frac{1}{8} =$$

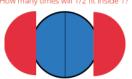
$$\frac{1}{2} \div \frac{1}{6} =$$

$$1 \div \frac{1}{2} =$$

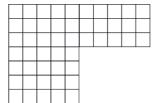


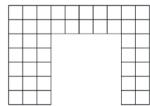


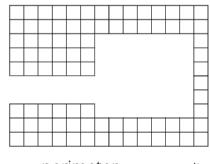




Find the perimeter and area of each shape (4.50)







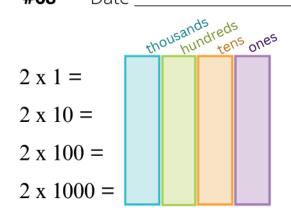
perimeter ____ units area ____ units²

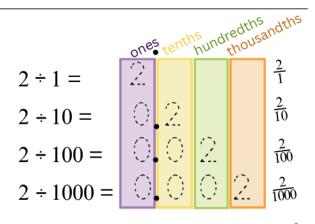
perimeter _____ units area ____ units²

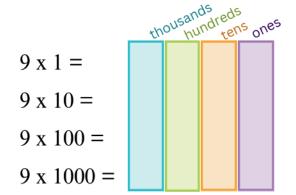
perimeter ____ units area ____ units²

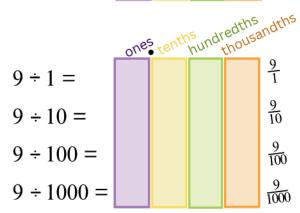
#68

Date









Find the products and quotients.

Draw lines to match the decimals and fractions. (4.36)

0.4 0.04 0.07 0.007 0.09 0.9 0.009 0.004 0.7

(4.48)

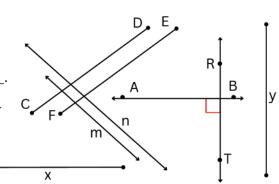


2. Name the two parallel lines: _____ and ____.

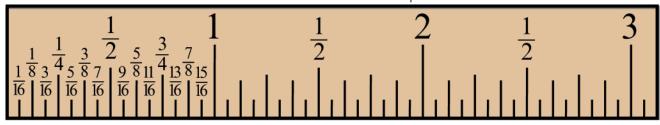


4. Trace the horizontal line segment green.

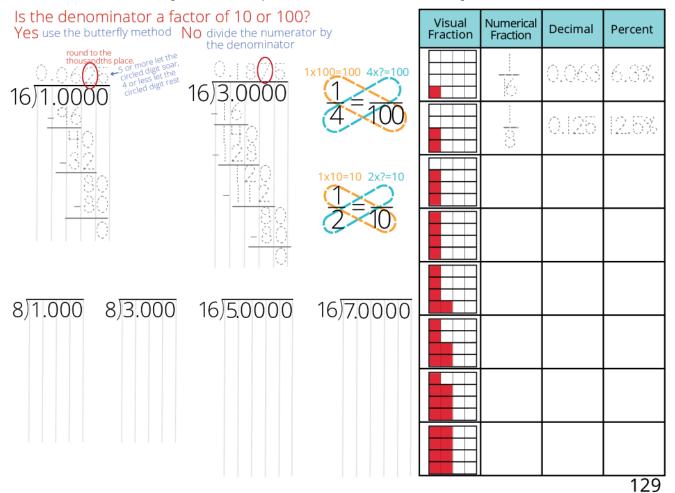
5.Trace the vertical line segment red.



Label each vertical line on this ruler. Use the simplest form of each fraction.

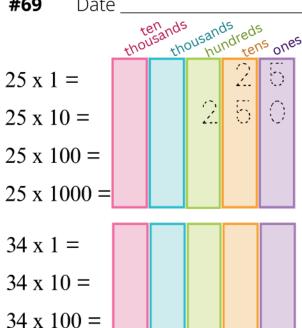


Complete this chart. Write fractions in their simplest form. Round decimals to the **thousandths place** and percents to the **tenths place**. (4.41)



#69

Date



tensones tenths hundredths

34=34 10=310

$$34 \div 1 =$$
 $34 \div 10 =$
 $34 \div 100 =$

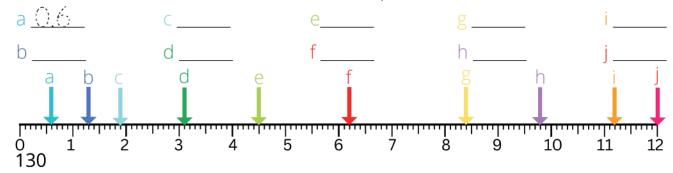


Find the products and quotients.

34 x 1000 =

$$12 \div 100 = 0.12$$

To which decimal number does each arrow point? (4.35)



Magic Squares. Use the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9 once each to fill the empty squares so all columns, rows and diagonals add up to the same magic constant of 15.

8		
	5	
4		

9	
	3
1	

7	
6	
2	

3		
	9	
		6

		8
	7	
		4

Tip: identify all of the sequences of 3 numbers which, added together, make 15.

For example:

8 + 1 + 6 = 15

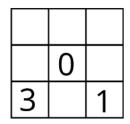
3 + 5 + 7 = 15

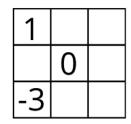
6 + 7 + 2 = 15

Magic Squares. Use the numbers -4, -3, -2, -1, 0, 1, 2, 3, 4 once each to fill the empty squares so all columns, rows and diagonals add up to the same magic constant of 0.

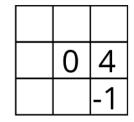
1	-2	
	0	

WORD PROBLEMS





3	-4	
-2		



quantity means parentheses 3(7 + 5)

Find three times the quantity of seven and five.

What is twice the quantity of seven less than ten?

There are three piles of books on your shelf. One pile has 9 books, another has 8 books and the last pile has 4 books. If you rearrange them so all of the piles have the same number of books, how many books will be in each pile?

The man had 13 caps on his head and he carried 27 caps in his arms. When he fell asleep, 5 monkeys stole the caps and divided them evenly. How many caps does each monkey have?

Admission to the zoo is \$15.75 for adults and \$9.50 for kids. If your mom buys tickets for 2 adults and 5 kids, how much will she pay?

Ten quarters is how much money? Write the amount two ways (using \$ and cents).

How many nickels is the same amount?



Use prime factorization and cancellation to simplify these fractions.

$$\frac{45}{50} = \frac{3.3.5}{5.2.5} = \frac{3}{5}$$

$$\frac{39}{5} = \frac{39}{65} = \frac{39}{65}$$

$$\frac{5}{0} = \frac{3 \cdot 3 \cdot 5}{5 \cdot 2 \cdot 5} = \frac{9 \cdot 45}{0 \cdot 3 \cdot 5} = \frac{30}{10 \cdot 5} = \frac{3 \cdot 13}{5 \cdot 13} = \frac{3}{5}$$

$$\frac{35}{42} =$$

$$\frac{63}{72} =$$

$$\frac{120}{150}$$
 =

$$\frac{108}{135}$$
 =

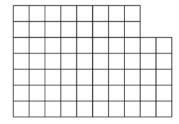
$$\frac{120}{140}$$
=

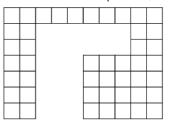
Write the missing operator (+, -, x, ÷) in empty squares to make each number sentence true. Remember to apply the Order of Operations, PEMDAS. (4.30)

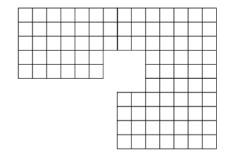
2	+	5	3	1	=	16
1	+	4	4	1	=	3
3	+	0	17	1	=	2

7	-	2	2	3	=	6
7	-	(2	2	3)	=	0
(7	-	2)	2	3	=	13

Find the perimeter and area of each shape. (4.50)







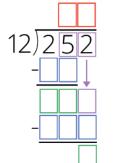
perimeter ____ units

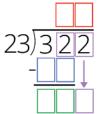
area ____ units²

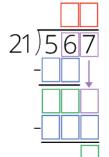
perimeter ____ units area ____ units²

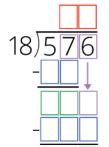
perimeter ____ units area _____ units²

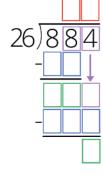
Find the quotients. (4.60)

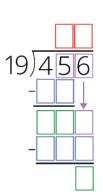


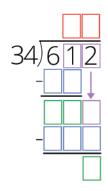


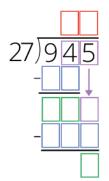


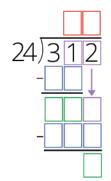


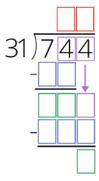




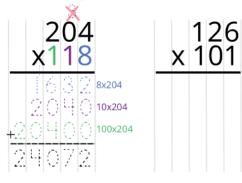


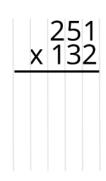


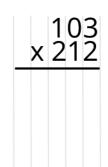




Find the products. (4.59)







21 x21	1 8

Round each number to the nearest: (4.11)

2174

Ten _____

Hundred _____

Thousand _____

5918

Ten _____

Hundred _____

Thousand _____

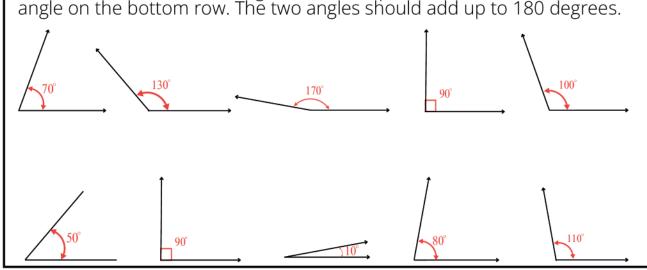
COMPLEMENTARY angles add up to 90 degrees. SUPPLEMENTARY angles add up to 180 degrees.



complementary angles

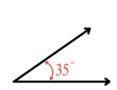
supplementary angles

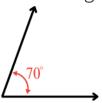
Draw lines to match each angle from the top row with its SUPPLEMENTAL angle on the bottom row. The two angles should add up to 180 degrees.



Draw and label the complement of each angle.



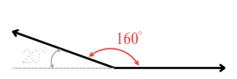


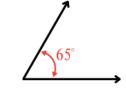


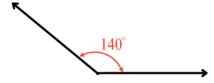


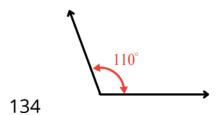


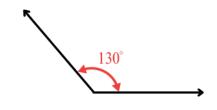
Draw and label the supplement of each angle.

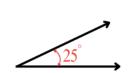










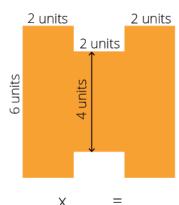


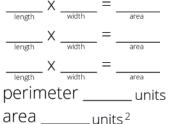
Find the missing dimensions, then divide each shape into two or three rectangles. Find the perimeter and the area of each small rectangle, then add up those areas to find the area of the WHOLE shape. All of the angles are RIGHT ANGLES. (4.50)

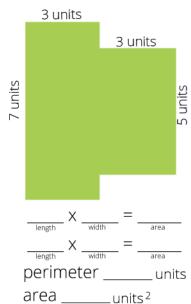
3 units
2 units
5 units

7 units

____ X ___ = ____area
____ X ___ = ____area
perimeter ____ units
area _____units²







Write each term twice.

complementary angles supplementary angles

How heavy was the puppy at 3 weeks?

Name four weeks that the puppy did not gain weight.

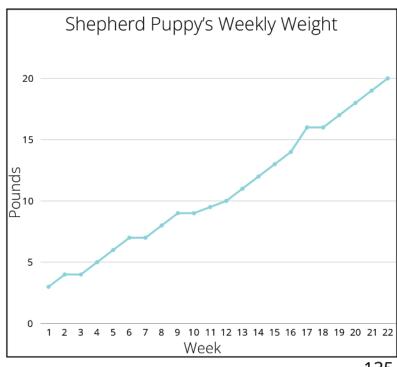
How much weight did the puppy gain in his first four weeks?

How much weight did the puppy gain from birth to 18 weeks?

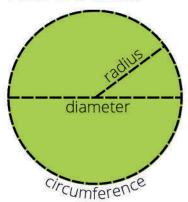
How old was the puppy when the data ended?

Which week did the puppy gain the most weight?

Why is it important to label the axes of the graph?



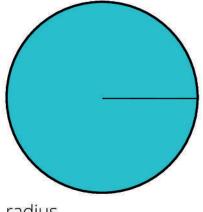
Parts of a circle:



area = π r² circumference = 2π r the area of the circle is green

 $\pi = 3.14$

Measure the length of the radius, then calculate the other dimensions.



radius

diameter___

circumference

give it your best try

Divide the marbles into SIX equal groups. (4.16)

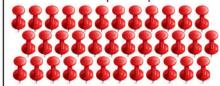


What is 1/6 of 36? What is 2/6 of 36?

What is 3/6 of 36?

What is 4/6 of 36? What is 5/6 of 36? What is 6/6 of 36?

Divide the pushpins into THREE equal groups.



What is 1/3 of 36? What is 2/3 of 36? What is 3/3 of 36?

Divide the paperclips into TWELVE equal groups.

What is 1/12 of 36? What is 3/12 of 36? What is 4/12 of 36?

What is 6/12 of 36? What is 8/12 of 36? What is 9/12 of 36?

$$\frac{1}{12}$$
 of 36=

$$\frac{2}{12}$$
 of 36=

$$\frac{3}{12}$$
 of 36=

$$\frac{3}{12}$$
 of 36= $\frac{4}{12}$ of 36=

$$\frac{6}{12}$$
 of 36=

$$\frac{11}{12}$$
 of 36=

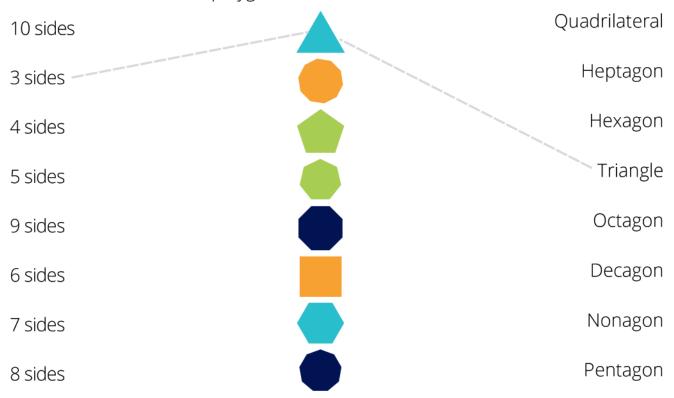
$$\frac{11}{12}$$
 of 36= $\frac{1}{6}$ of 36=

$$\frac{1}{4}$$
 of 36=

$$\frac{1}{4}$$
 of 36= $\frac{1}{3}$ of 36= $\frac{1}{2}$ of 36=

$$\frac{1}{2}$$
 of 36=

Draw lines to match the polygons across all three columns. (4.49)

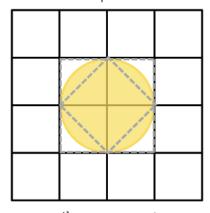


Find five times the quantity of four and five.

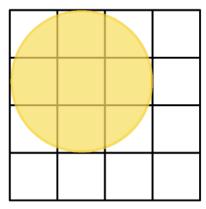
What is half the quantity of three increased by nine?

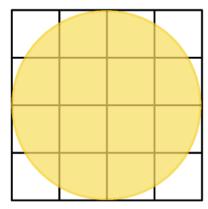
If the perimeter of a square is 3 feet, each side is how many inches long?	This cube is made of how many small cubes?
The first five square numbers are 1, 4, 9, 16 and 25. What are the next five square numbers?	You cooked 35 potstickers for your lunches all week. How many should you put in each days' lunch?

Use the grid to estimate the area of each shape. Each square on the grid is one unit squared.



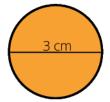
The small square is 2 units?
The big square is 4 units?
A good estimate will be between the upper and lower estimates.





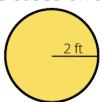
Draw and label the radius, diameter and circumference of the biggest circle.

Find the dimensions of each circle based on the given dimension. (not to scale)



radius ______ diameter _____ circumference _____

area _____

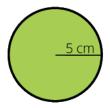


radius ______diameter ______circumference _____

area _____



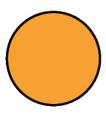
radius ______
diameter _____
circumference _____
area



radius ______diameter _____

circumference _____

area _____



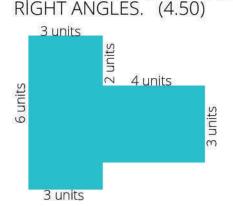
radius _____ diameter ____ circumference <u>314 cm</u> area ____ 30 cm

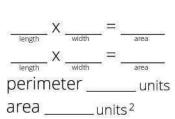
radius _____ diameter _____ circumference _____

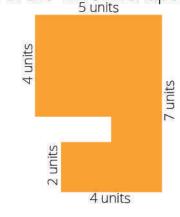
area ____

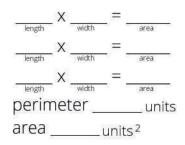
138

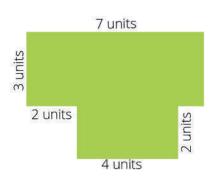
Find the missing dimensions, then divide each shape into two or three rectangles. Find the perimeter and the area of each small rectangle, then add up those areas to find the area of the WHOLE shape. All of the angles are

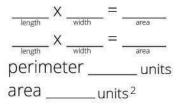












Draw lines to match each quadrilateral across all three columns. (4.49)

rectangle
rhombus
trapezoid
square
parallelogram

- Has two pairs of parallel sides, right angles and congruent sides.
- · Has two pairs parallel sides, and four right angles.
- Has only one pair of parallel sides.
- A parallelogram with four congruent sides, but it does not have to have 4 right angles.
- Has 2 pairs of parallel sides, opposite each other.

Round each number to the nearest: (4.11)

5012

Ten _____

Hundred _____

Thousand _____

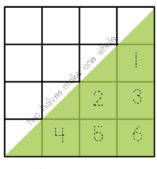
3974

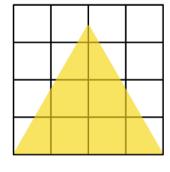
Ten _____

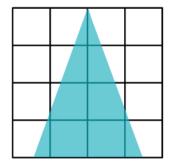
Hundred _____

Thousand _____

Use the grid to estimate the area of each shape. Each square on the grid is one unit squared.

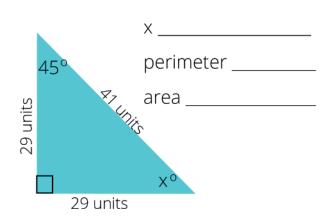


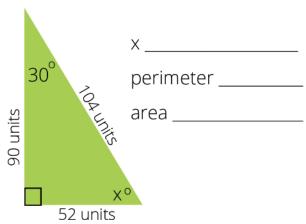


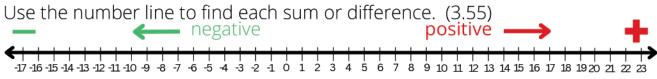


The whole square is 16 units?
The triangle is half of that.
You can also count the squares and add them up.

area_{Δ}= $\frac{1}{2}$ bh b (base) and h (height) must be perpendicular to each other







Find the mean, median, mode and range of each set of game scores. (4.55)

Scores	Mean	Median	Mode	Range
4, 9, 7, 7, 3	6	7	7	6
5, 2, 1, 6, 1				
5, 6, 5, 4, 5				
9, 2, 9, 4, 1				
2, 9, 13, 10, 8, 5, 2				
1, 8, 7, 9, 3, 10, 4				

Find three times the product of 2 and the square root of 36.

What is half of the product of five and six?

If you can blow up 1 balloon every minute, how balloons can you blow up in two hours?

This solid is made of how many small cubes?

side view front view

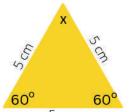
Gramps bought butter for \$3.89, chocolate chips for \$4.47, eggs for \$3.12, flour for \$2.75 and sugar for \$3.83. He paid 10 percent tax and paid with a \$20 bill. What was his change?

Draw a picture to show that the mixed number one and one fourth and the topheavy fraction, five fourths are equivalent.

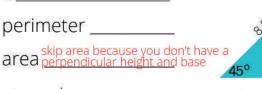


Date

Find the missing angle, the perimeter & area, then classify each triangle by sides (equilateral, isosceles, scalene) and angles (acute, right, obtuse). Use units.



perimeter_



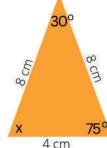
perimeter _____ area _____

sides: <u>eauilatenal</u>

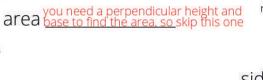


6 cm sides:





perimeter _____



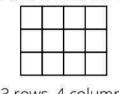
perimeter area ____

sides:

angles:

sides: angles: _____

Find the area and perimeter of each shape. (4.50)



3 rows, 4 columns

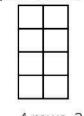
___ x ___ = ___ perimeter area



4 rows, 3 columns

___ x ___ = ___ area _____

perimeter _____



4 rows, 2 columns

___ x ___ = ____ perimeter

area _____

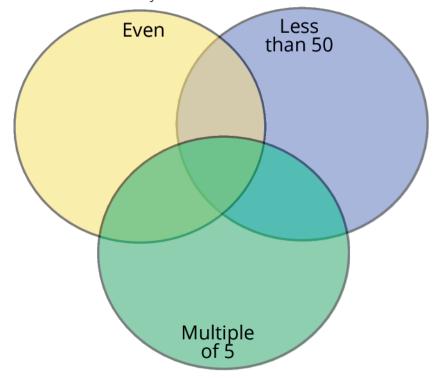
	50	90

2 rows, 4 columns × =

perimeter _____ area

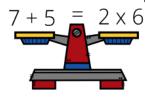
What is the commutative property of multiplication? Circle two examples of it.

Find the correct space for each number in this Venn diagram. Cross out numbers as you use them. Circle any leftover numbers that don't have fit into the diagram. (3.30)



18	12
45	54
30	25
6	9
52	13
35	36
40	43
20	15
19	65
55	100

Balance these equations. (4.31)



$$2(2 + 3) = 40 \div ___ x 5$$

$$_{---}$$
 x 8 = 3(4 x 8)

$$5^2 - 5 = 4 \times$$

$$4 + 11 = \underline{} \times 5$$

$$2 + 3^2 = 13 -$$

$$_{--} \times 4 = 6^2 \div 3$$

$$\sqrt{49} = 35 \div$$

$$4(3 + 3) = 8 \times _{--}$$

$$48 \div _{---} = \sqrt{36}$$

Round each number to the nearest: (4.11)

1213

Ten _____

Hundred _____

Thousand _____

1392

Ten _____

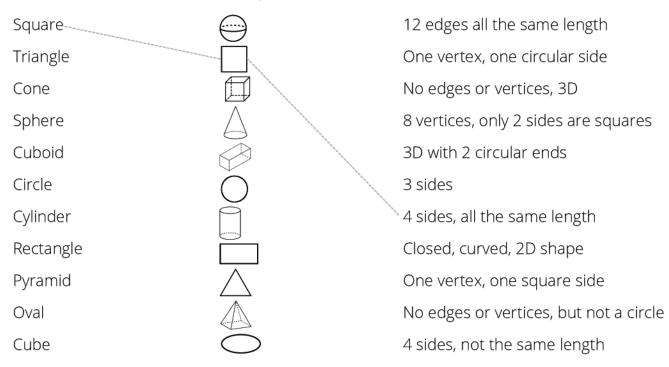
Hundred _____

Thousand _____

ш	_	_
#	•	•
$\boldsymbol{\pi}$		•

Date _____

Draw lines to match each shape to its name and attributes.



Draw lines to match each quadrilateral to it's most specific name. (4.49)						
roctanglo	callara	parallologram	rhombus	tranozoid		
rectangle	square	parallelogram	rhombus	trapezoid		

Geometry Riddles. The answer to each riddle is one of the 3D shapes above. I have no vertices.

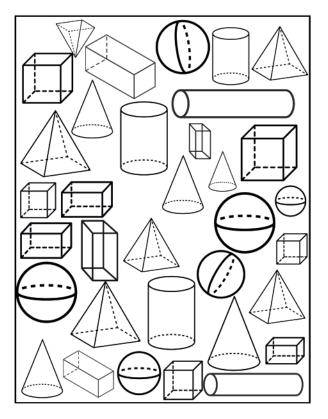
I have 5 faces and 8 edges. _____

I have 12 edges and 8 vertices. _____

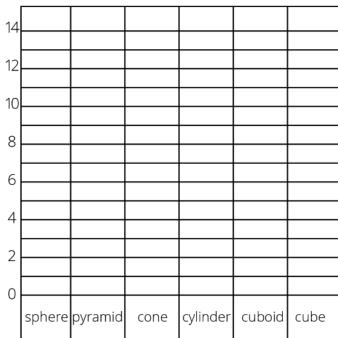
I have 2 circular faces and one rectangular face. ______

I have one vertex and one circular face. _____

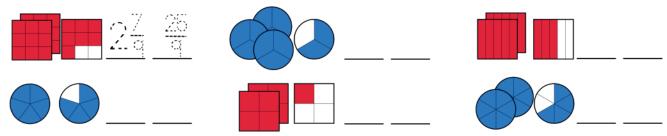
144



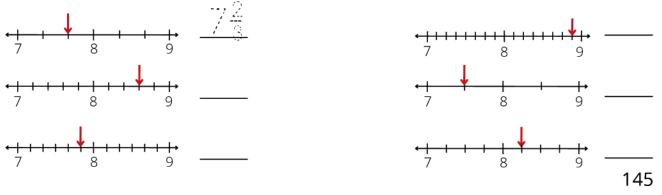
Color one space for each 3D shape to make a bar graph of shapes.



Name these fractions as mixed numbers and improper fractions. (4.25)



To which **mixed number** does each arrow point? (4.24)



Roman Numerals. Write the Roman Numeral for each Arabic Numeral.

Ι	1
V	5
X	10
L	50
С	100
D	500
M	1000

illerais.		V V I	ite tile K
1	I	11	
2	II	12	XII
3	III	13	
4	IV	14	
5	V	15	
6	VI	16	
7	VII	17	
8	VIII	18	
9	IX	19	
10	X	20	

21	
22	
23	
24	
25	
26	
27	
28	
29	XXIX
30	

ior e	each Arai
31	
32	
33	
34	XXXIV
35	
36	
37	
38	XXXVIII
39	
40	

41	
42	
43	
44	XLIV
45	
46	
47	
48	
49	
50	<u></u>

Write the Arabic Numeral for each Roman Numeral.

XXXIII ____

XXVIII ____

L

XLVIII ____

VIII

XI

XXIX ____

XXXV ____

XXXXI

XIX

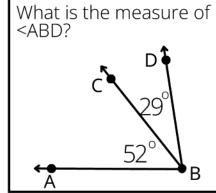
XXIV ____

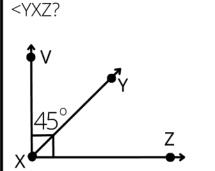
XXVI

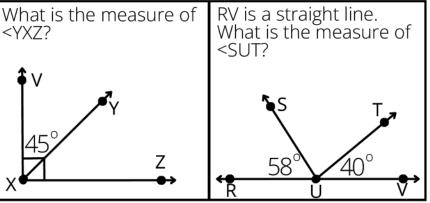


What is the square root of the sum of the fourth multiple of seven and the sixth multiple of six?

What is the sum of one fourth and three fourths?



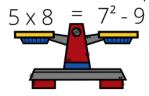




Use a protractor to correctly draw each angle measure. (4.48)

90° (right angle)	45°	30°
22°	170°	15°

Balance these equations. Remember to follow PEMDAS. (3.83)



$$8 \times 6 = 4 \times \underline{\hspace{1cm}} 2 + 5 = \sqrt{\underline{\hspace{1cm}}}$$

$$4 \times _{_{_{_{_{_{_{_{_{_{_{_{_{1}}}}}}}}}}} = 8^{-} \div 2$$

$$4 \times \underline{\hspace{1cm}} = 8^2 \div 2 \qquad \underline{\hspace{1cm}} \times 4 = 16 \div 4$$

$$6^2 \div \underline{} = 9 \times 2$$

$$6^2 \div \underline{\hspace{1cm}} = 9 \times 2$$
 $\sqrt{25} - 5 = 4 \times \underline{\hspace{1cm}}$ $8 \times 7 = 56 \div \underline{\hspace{1cm}}$

$$9 \times 12 = 10^2 +$$
 $12 \times$ $= 4 \times 15$ $5(3 + 5) = 8 \times$

$$12 x = 4 x 15$$

$$5(3 + 5) = 8 \times$$

Find the squares. (3.41)

$$2^2 =$$
 ____ $6^2 =$ ____

$$6^2 =$$

Find the positive square roots.

$$\sqrt{16} =$$

$$\sqrt{25} =$$

$$\sqrt{36} =$$

$$\sqrt{4} =$$

$$\sqrt{64} =$$

$$\sqrt{49} = \frac{147}{147}$$

Roman Numerals.

Write the Roman Numeral for each Arabic Numeral.

Ι	1
V	5
X	10
L	50
С	100
D	500
M	1000

IIIE	1 a 15.	VVI	ite tile K
1	F	29	
2	II	31	
3	III	42	
5	IV	44	
5		55	
6		56	
7		59	
8		60	
9		69	
10		70	

71	
72	
83	
84	LXXXIV
85	
86	
87	
88	
89	LXXXIX
90	

91	150
93	199
94	200
95 XCV	500
97	750 DOCL
99	1000
100	2000
101 01	2025 MMXXV
110	2420
111	5000

Write the Arabic Numeral for each Roman Numeral.

LXVII ____

XC

LXIX

XCIX

CD

LXX ____

C

CM

LXXX

C

CMXCIX

LXXX ____

CCC

MMM

Quadrilaterals (shapes with 4 sides) are special! Draw lines to match columns. (4.49)

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.

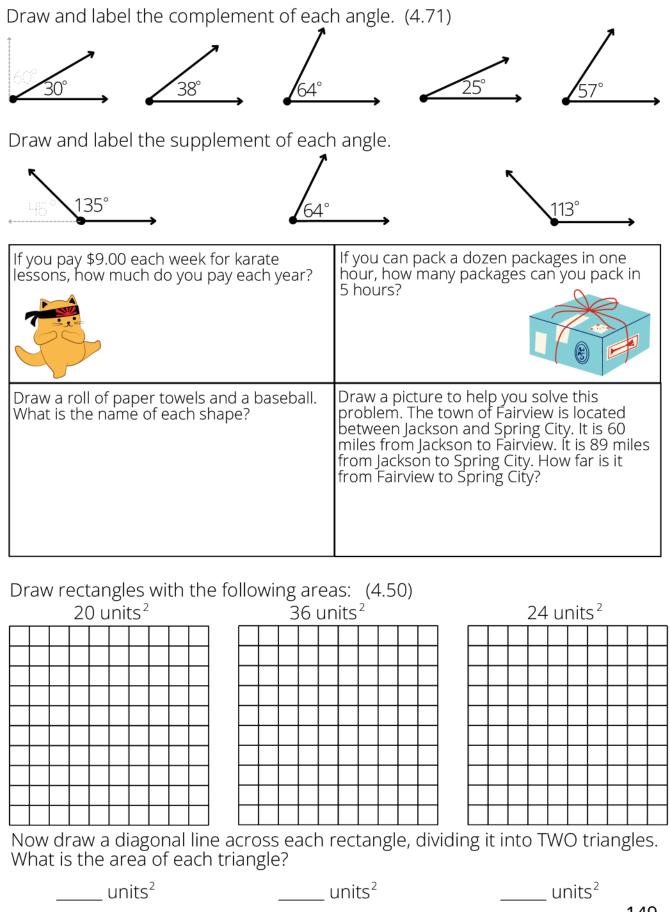
rhombus

Has 2 pairs of parallel sides,

trapezoid

opposite each other.

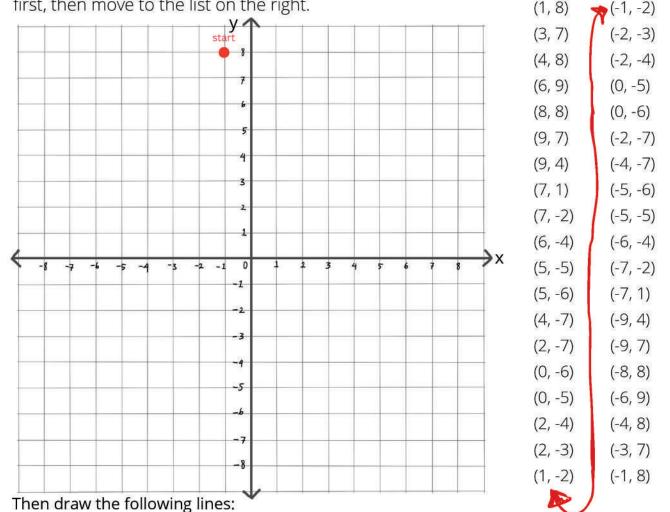
Has one pair of parallel sides.



#80 Date

Plot each set of points (x, y) to draw a picture. Start at (-1, 8) and keep your pencil on the paper as you move to each of the points in the list. Complete the list on the left first, then move to the list on the right.

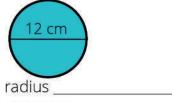
(1, 8) (-1, -2)



- 1. (6, 6) to (7, 1)
- **2.** (3, -1) to (5, -4) to (5, -5)
- **3.** (2, -7) to (1, -8) to (-1, -8) to (-2, -7)

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

Find the dimensions of each circle based on the given dimension. (not to scale) (4.74)



diameter _____ circumference

area 150



radius diameter _____ circumference

area____



6. (3, -7) to (1, -9) to (-1, -9) to (-3, -7)

7. (-3, -1) to (-5, -4) to (-5, -5)

8. (-6, 6) to (-7, 1)

radius diameter _____ circumference area _____

Complete the charts. (4.78)

Write the Arabic Number for each Roman Numeral.

1	Ī	11	
2		12	
3		13	
4		14	
5		15	
6		16	

17

18

19

20

XXIX

XLVI

The operators are missing! Insert the correct operator $(+, -, x, \div)$ in each yellow circle to make the number sentence true. All answers have been simplified. (4.20 - 4.23)

$$\frac{2}{3} \times \frac{1}{4} = \frac{2}{12} \frac{1}{6}$$
 $\frac{1}{4} = \frac{3}{16}$ $\frac{2}{3} = \frac{1}{4} = \frac{5}{12}$ $\frac{1}{2} = \frac{1}{3} = \frac{1}{6}$

8

9

10

$$\frac{1}{4}$$
 $\frac{3}{4}$ $=$ $\frac{3}{16}$

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

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

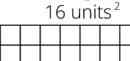
$$\frac{1}{2} \quad \frac{2}{5} = \frac{2}{10} \quad \frac{1}{6} \quad \frac{1}{3} = \frac{1}{2} \quad \frac{1}{2} \quad \frac{1}{4} = \frac{3}{4} \quad \frac{1}{4} \quad \frac{3}{4} = \frac{1}{3}$$

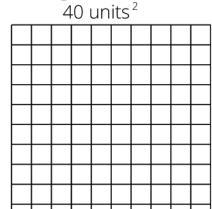
$$\frac{1}{6}$$
 $\frac{1}{3}$ $=$ $\frac{1}{2}$

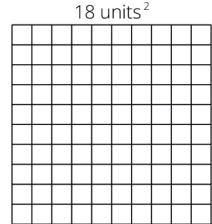
$$\frac{1}{2}$$
 $\frac{1}{4}$ = $\frac{3}{4}$

$$\frac{1}{4}$$
 $\frac{3}{4}$ $=$ $\frac{1}{3}$

Draw rectangles with the following areas: (4.50)







Now draw a diagonal line across each rectangle, dividing it into TWO triangles. Color one of them. What is the area of each triangle?

____ units²

____ units²

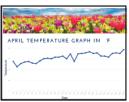
units²

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

BAR GRAPH

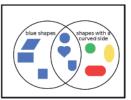
Makes it easy to compare DISCRETE dáta between different groups, using

LINE GRAPH

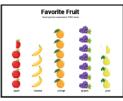


Represents continuous data, using lines to connect individual data points.

VENN DIAGRAM PICTOGRAPH

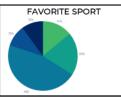


Visual organizer or overlapping circles that explores the relationship between a set of different between a set of different using images, icons, or symbols. Visual organizer of



A type of bar graph, pictographs are pictorial representations of data

PIE CHART



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.

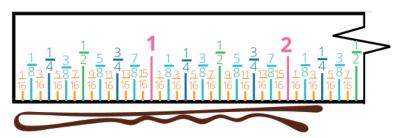
Your family is one whole group. Graph your family membérs favorité ice cream flavors as a percentage of the whole.

Compare the similarities and differences of dogs and cats.

Graph the hair colors of everyone in your neighborhoód.

Use pictures to represent your friend's favorite pets.

Another word for information is _____



How long is this bobby pin?

in

Use a ruler to measure each item in Customary and Metric units. (4.65)

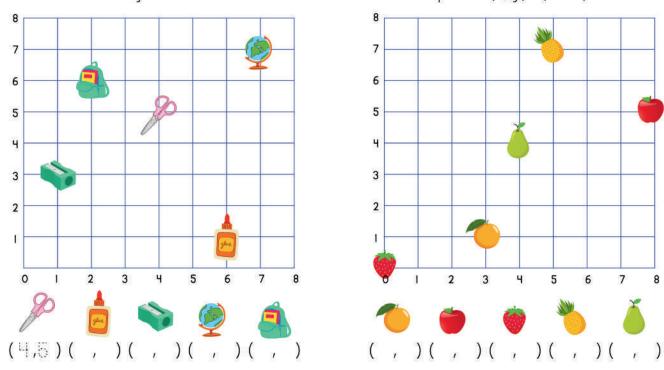


cm in

____ cm ____ in

___ cm _____ in

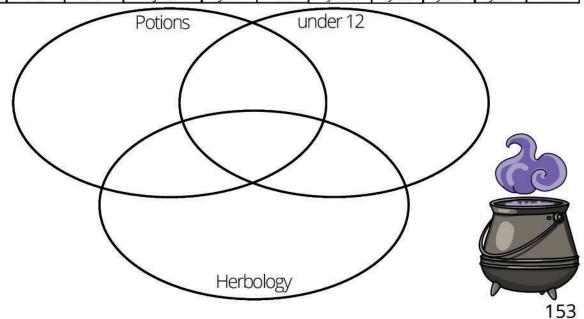
Locate each object and write the coordinates of its point. (x, y) (4.80)



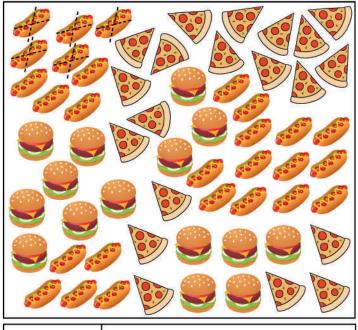
What are the coordinates of the origin?

Use this chart to fill out both of the Venn Diagrams below with a few Hogwarts students' favorite classes. (3.30)

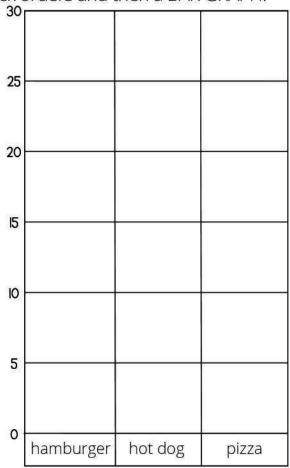
name	Harry	Ron	Hermione	Ginny	Fred	George	Luna	Neville	Draco	Cho
age	11	11	11	9	15	15	11	11	12	11
Potions	yes	yes	yes	no	yes	no	no	yes	yes	no
Herbology	no	no	yes	yes	no	yes	yes	yes	yes	no



Build a FREQUENCY TABLE of todays' food truck orders and then a BAR GRAPH.

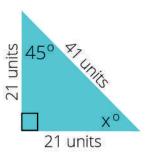


hamburger hot dog pizza

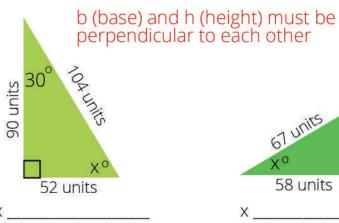


Another word for information is _____

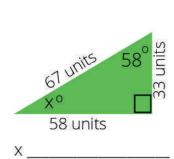
area_= $\frac{1}{2}$ bh (4.75)



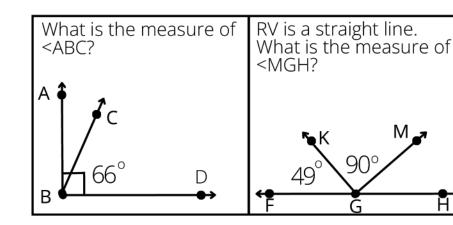
perimeter _____ area _____ 154

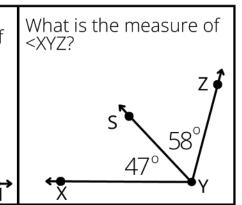


perimeter _____ area _____



perimeter _____ area ____





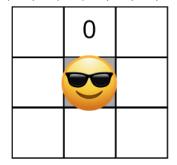
The numbers in each row and column should add to the specified total. Note that there are multiple solutions for each puzzle. (4.39)

0.2, 0.3, 0.4, 0.6, 0.7, 0.8, 0.9



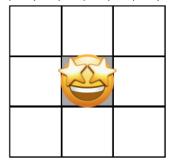
All rows and columns should add up to 1.8

0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8



All rows and columns should add up to 1.2

0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9



All rows and columns should add up to 1.5

Your mom bought a pizza. It was cut into eighths. You and two of your brothers ate one fourth each. How many sliced did you eat? How many slices are left for your sister?

Find a common denominator, then add and subtract the fractions. (4.20)

$$\frac{\chi_2}{\chi_4} - \frac{1}{4} = \frac{1}{4}$$

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

$$\frac{1}{3} + \frac{1}{4} =$$

$$\frac{1}{4} + \frac{5}{8} =$$

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

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

$$\frac{1}{3} - \frac{1}{12} =$$

$$\frac{5}{6} - \frac{3}{12} =$$

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

$$\frac{3}{4} - \frac{3}{6} =$$

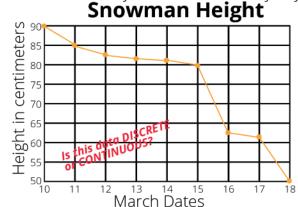
$$\frac{7}{8} - \frac{1}{2} =$$

$$\frac{3}{4} - \frac{3}{12} =$$

#83

Date

You measured your snowman every day at noon.



What is our height scale? _____

How tall is your snowman March 10?

Which date was probably the warmest?

How do you know?_____

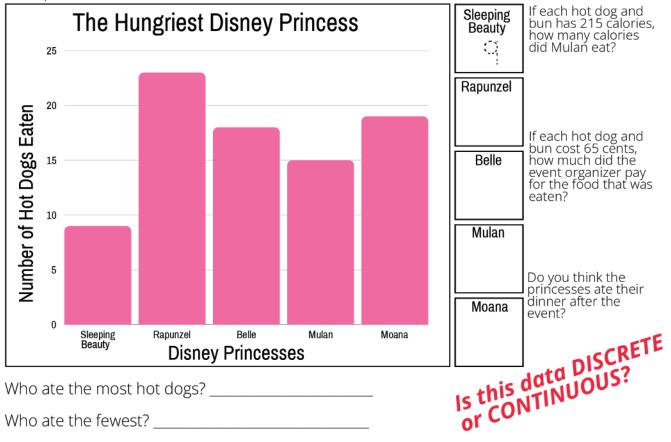
When was it the coldest?

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

Why doesn't the line ever increase?

How much did your snowman shrink by March 18?

The Disney princesses had an eating contest. They graph below shows how many hot dogs each princess ate in ten minutes.



Who ate the most hot dogs? _____

Who ate the fewest? _____

How many MORE hot dogs did Rapunzel eat than Moana? _____

How many hot dogs did all of the princesses eat together? _____

Write operators $(x, \div, +, -)$ in all of the empty squares to make each number sentence true. Remember to apply the Order of Operations, PEMDAS. (3.83)

8	7	2	+	1	=	5
1		3		2	=	1
7		6		9	=	4
=		=		=		=
1		1		8	=	8

2	=	2	Х	1	=	0
5		0		3	=	3
6		3		7		-5
=		=		=		=
1		2		-4	=	-2

5	=	1	+	3	=	7
3		4		6	=	2
2		2		4	=	0
=		=		=		=
4		2		1	=	9

Solve using the Order of Operations (PEMDAS). (3.83)

$$2^2 - \sqrt{9} =$$

$$2(5-1) \div 2 =$$

$$6^2 \div 9 =$$

$$3^2 - \sqrt{49} =$$

$$2 + 4 \times 12 =$$

$$7(2 \times 4) =$$

Find the mean, median, mode and range of each set of game scores. (4.55)

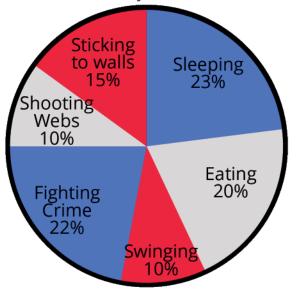
Scores Mean Median Mode Range

5			
2, 5, 8, 7, 3	5	5	6
8, 8, 9, 4, 1			
6, 7, 9, 4, 9			
11, 8, 2, 9, 3, 2, 7			
13, 8, 7, 9, 5, 10, 4			



Date

Each WHOLE day is 24 hours. This is how Spiderman spent his day.



How did he spend most of his time?

How did he spend least of his time?

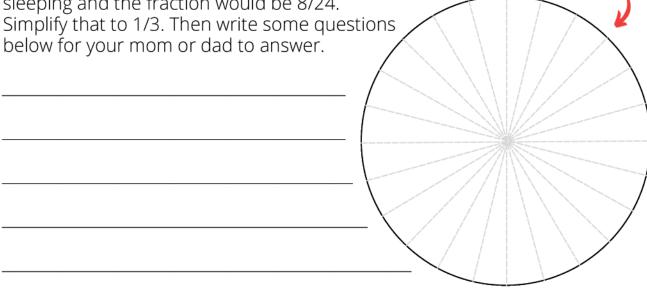
On which two activities did he spend an equal amount of time?

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

Another word for information is ______

What does YOUR daily schedule look like? The pie chart below 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 This pie chart has 24 sections

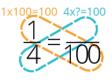
sleeping and the fraction would be 8/24.



Complete this chart. Write fractions in their simplest form. Round decimals to the hundredths place and percents to the whole number. (4.41)

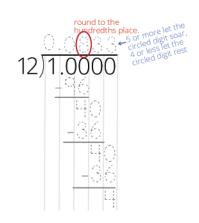
Is the denominator a factor of 10 or 100?

Yes use the butterfly method No divide the numerator by the denominator



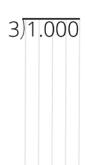






8)1	.000

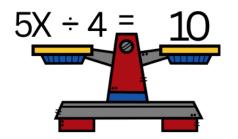




Visual Fraction	Numerical Fraction	Decimal	Percent
	<u> \S</u>	0.08	54 (C)
	<u>1</u>		
	1 8		
	<u>1</u>		
\bigoplus	<u>1</u> 5		
	1 1 4 1 3 1 2		
\bigcirc	1/3		
	1/2		
	1		

(get X by itself!)

Solve for x: (4.31)



Undo everything that has been done to X.

Step 1: multiply both sides of the equation by 4 to UNDO the division.

Step 2: divide both sides by 5 to UNDO the multiplication.

$$5X \div 4 = 10$$

$$5X = 40$$

 $X = 8$

Step 3: Check your answer by replacing X with the answer.

$$5(8) \div 4 = 10$$

Solve for the variable:

$$8 + X = 14$$

$$(3 + 5) \div X = 4$$
 $X = _____$

$$X(5 + 2) = 7^2$$

$$8(9 - X) - 6 = 50$$
 $X = ____$

$$2(X + 3) \div 2 = 7$$

#85

Date

Your basketball team played 30 games last season. Here are your scores:

48, 42, 42, 68, 48, 57, 51, 64, 55, 60, 65, 45, 46, 52, 44, 49, 56, 60, 58, 64, 65, 63, 53, 58, 55, 66, 50, 60, 57, 59

lowest score

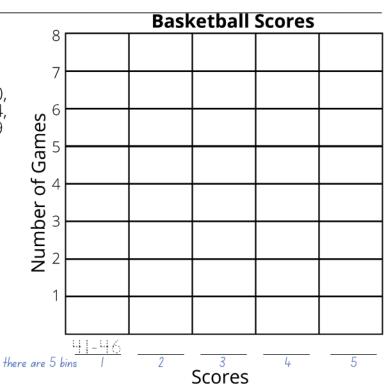
highest score

range _____

bin size range divide by number of bins; round up to the nearest whole number

label the bins

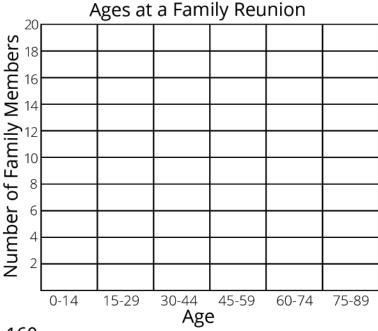
color bars, each a different color, to represent the number of games in each bin.



You asked everyone at your family reunion their ages and recorded them on this frequency table. Build a histogram from the frequency table.

0-14	m m m m
15-29	m m m m
30-44	m m m

45-59	ווו או או
60-74	
75-89	1 44



How many people attended the reunion?

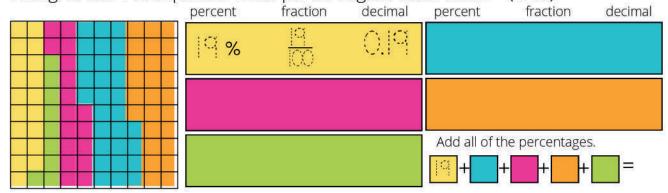
Which age group has the fewest people?

Which age group(s) have the most people?

How many family members are age 30 or older?

How many family members are age 29 or younger?

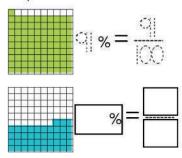
This grid has 100 squares. What percentage is each color? (4.40)

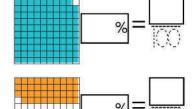


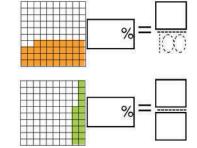
Do percentages always add up to 100%? _____

Why? _____

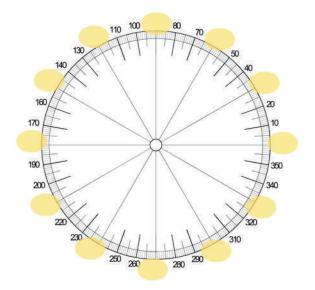
Each block has 100 squares. Color the squares to illustrate each percentage equation and fill in any missing parts of each equation. (4.40)







Use your reference pages to fill in the missing angles (the yellow ovals). (4.48)



Draw:

Line Segment
Ray
Line
Acute Angle

YOU DID IT!

name

Nothing worth learning is easy. You have learned some incredible skills and your hard work has paid off!
Congratulations on your excellent achievement!



Any Beck We Play Math

parent/educator