Part D

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

$2 + 9 \times 3 - 8 =$ _____ $3 \times 7 - 3 \times 1 =$ _____

$4 - 15 \div 3 + 1 =$ _____ $(3 + 7) + 3 \times 1 =$ _____

2. Add or subtract these decimal numbers.

$1.5 + 0.34 =$ _____ $3.8 - 2.2 =$ _____ $8.4 + 5.14 =$ _____

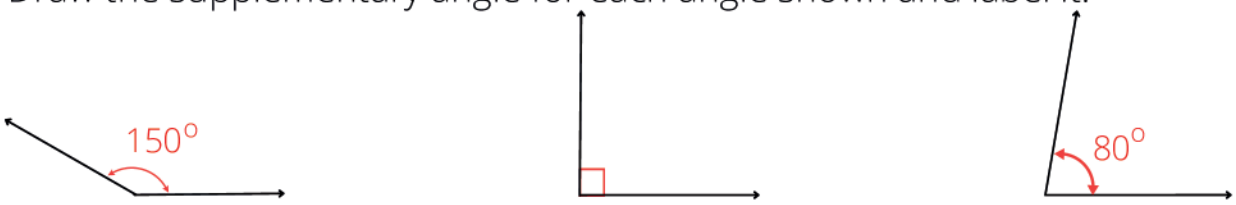
3. Find four equivalent fractions for each fraction.

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

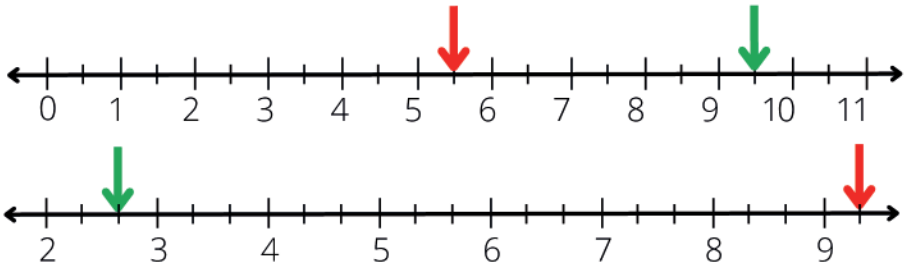
4. Add or subtract the fractions. Simplify.

$\frac{1}{2} + \frac{1}{4} =$ $\frac{7}{10} - \frac{1}{5} =$ $\frac{1}{6} + \frac{1}{3} =$

5. Draw the supplementary angle for each angle shown and label it.



6. To which number is each arrow pointing?



_____ _____

_____ _____

12. Find the squares.

4^2 =___ 5^2 =___

9^2 =___ 2^2 =___

13. Find the positive square roots.

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

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

14. Find each sum or difference. (Use a number line if needed.)

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

5 - -7 = ___ -4 + 5 = ___ 3 - 10 = ___

15. Use digits to write the number three hundred thirty-seven.

16. If you divide 45 jellybeans equally between yourself and two friends, how many jellybeans do you each have?

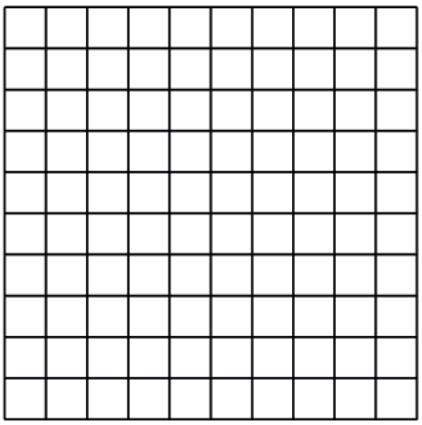
17. What is the perimeter of a square with a 4 in. side? What is the area?

18. What is ¼ of 20?

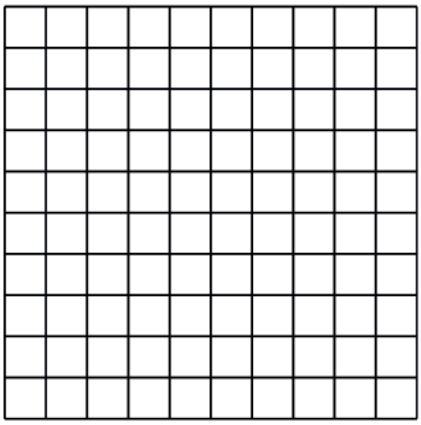
19. After buying a $15.50 movie ticket, you had $2.75. How much money did you have before buying the ticket?

20. Draw rectangles with the following areas:

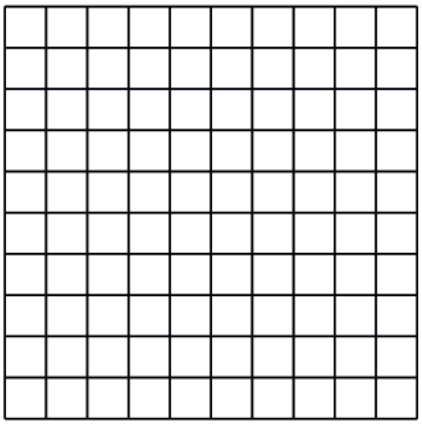
32 units^2



49 units^2



81 units^2

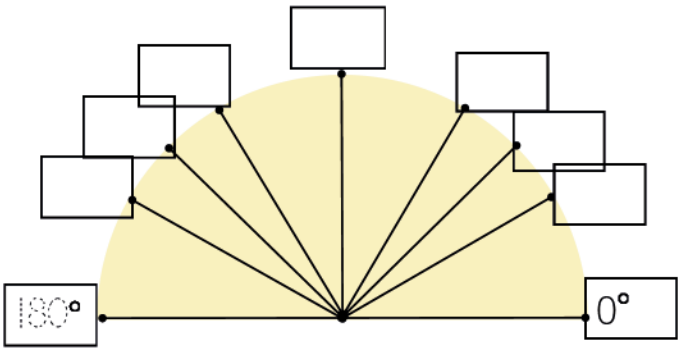


Part E

1.Find the quotient.

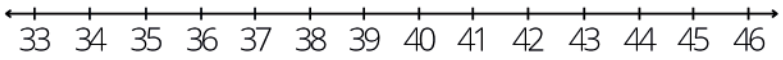
$17\overline{)1436.5}$ $13.4\overline{)292.12}$

2.Fill in each angle measure.



3.Rearrange this set of numbers in ascending order, then find the mean, median, mode, range and draw a box plot.

set: {45, 46, 34, 37, 42, 34, 33}	
order: { }	
mean:	median:
mode:	range:



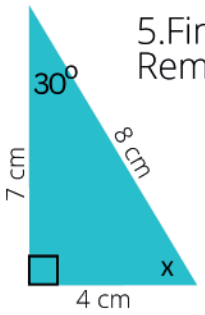
4.Solve. Remember to follow the order of operations.

$|-7 \times 8| =$ $7^2 - 8(3 \times 2) =$ $-72 \div 9 =$

$-8 \times (3 + 4) =$ $-8 \times 3 + 4 =$ $|-12| \div 4 \times 6 =$

$-|8 \times 3 + 4| =$ $(-3 - 7)^2 =$ $-2 + (-9) =$

5.Find the missing information. Remember the units.



x _____

perimeter _____

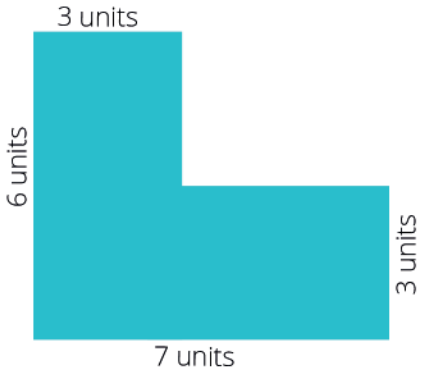
area _____

Classification:

sides _____

angles _____

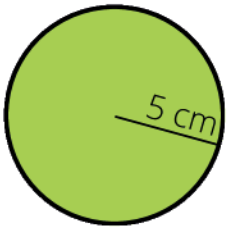
6.Assume all of the angles are RIGHT ANGLES. Find the perimeter and area of this shape.



perimeter _____ units

area _____ $units^2$

7.Find the dimensions of the circle. (not to scale)



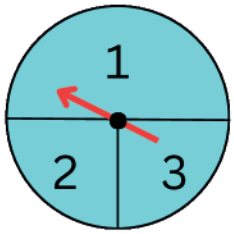
radius _____

diameter _____

circumference _____

area _____

8.What fraction names the probability that the spinner will stop in:



The section labeled 1.

A section with an even number.

A section with an odd number.

9.Solve and simplify.

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

$\frac{1}{5} \div \frac{3}{5} =$ $\frac{1}{2} - \frac{1}{3} =$ $\frac{1}{2} + \frac{1}{5} =$ $\frac{5}{6} \times \frac{3}{10} =$

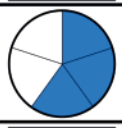
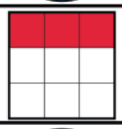
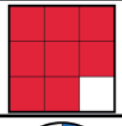
10.How many cents is ¾ of a dollar? What percent of a dollar is that?

11.Divide and shade circles to show that $2\frac{7}{8}$ equals $\frac{23}{8}$.

12.Find the products.

5.33	3.785	19.47	82.6	11.99
x 2.5	x 1.98	x 12.2	x 2.8	x 9.8

13.Name each fraction, then convert to decimals and percents. Show your work.

Visual Fraction	Numerical Fraction	Decimal	Percent
			
			
			
			
			
			
			

Round decimals to the hundredths place and percents to the whole number.

Part D (answer key)

1. $2 + 9 \times 3 - 8 =$ 21 $\quad 3 \times 7 - 3 \times 1 =$ 18

   $4 - 15 \div 3 + 1 =$ 0 $\quad 3 \times (7 - 3) \times 1 =$ 12

2. $1.5 + 0.34 =$ 1.84 $\quad 3.8 - 2.2 =$ 1.6 $\quad 8.4 + 5.14 =$ 13.54

3. answers may vary

   $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$ $\quad \frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$

4. $\frac{3}{4}$ $\quad \frac{5}{10}$ $\quad \frac{1}{2}$

5. 

6. $5\frac{1}{2}$ $\quad 9\frac{1}{2}$ $\quad 9\frac{1}{3}$ $\quad 2\frac{2}{3}$

7. length: 2 in. $\quad$ width: 1 in.
   perimeter: 6 in. $\quad$ area: 2 square inches
   ¾ is not shaded

8. 9462

9. 1571

10. (-3, 4) $\quad$ (3, -1)
    (-2, -1) $\quad$ (2, 3)
    (-4, -4) $\quad$ (4, -4)

11.

Visual Fraction	Numerical Fraction	Decimal	Percent
	$\frac{1}{10}$	0.1	10%
	$\frac{1}{5}$	0.2	20%
	$\frac{3}{10}$	0.3	30%
	$\frac{1}{2}$	0.5	50%
	$\frac{8}{10}$	0.8	80%
	$\frac{10}{10}$	1	100%

12. $4^2 =$ 16 $\quad 5^2 =$ 25 $\quad 9^2 =$ 81 $\quad 2^2 =$ 4

13. $\sqrt{36} =$ 6 $\quad \sqrt{9} =$ 3 $\quad \sqrt{64} =$ 8 $\quad \sqrt{49} =$ 7

14. $-7 - 4 =$ -11 $\quad 1 - 2 =$ -1 $\quad 4 + -5 =$ -1
    $5 - -7 =$ 12 $\quad -4 + 5 =$ 1 $\quad 3 - 10 =$ -7

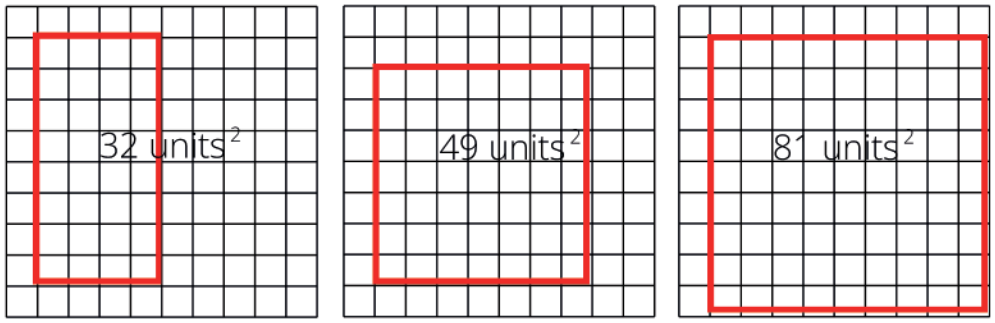
15. 337

16. 15

17. 16 in.; 16 square inches

18. 5

19. $18.25

20. 

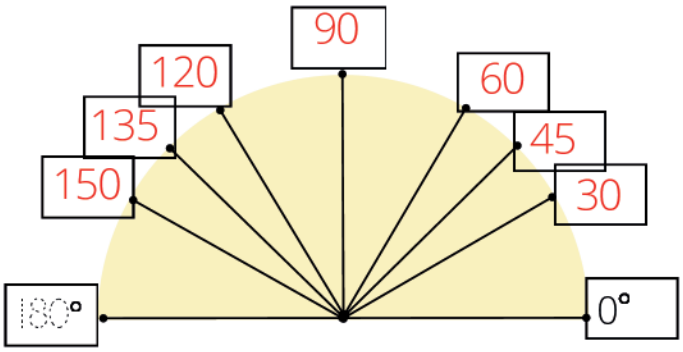
rectangular shapes may vary

Part E (answer key)

1.Find the quotient.

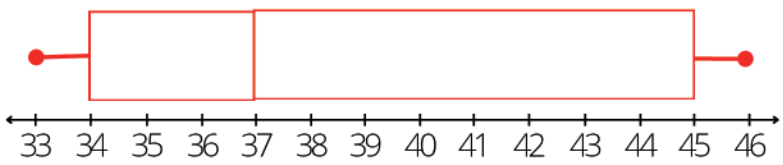
$$17\overline{)1436.5} = 84.5 \qquad 13.4\overline{)292.12} = 21.8$$

2.Fill in each angle measure.



3.Rearrange this set of numbers in ascending order, then find the mean, median, mode, range and draw a box plot.

set: {45, 46, 34, 37, 42, 34, 33}	
order: {33, 34, 34, 37, 42, 45, 46}	
mean: 38.7	median: 37
mode: 34	range: 13



4.Solve. Remember to follow the order of operations.

$|-7 \times 8| = 56$ $\quad 7^2 - 8(3x2) = 1$ $\quad -72 \div 9 = -8$

$-8 \times (3 + 4) = -56$ $\quad -8 \times 3 + 4 = -20$ $\quad |-12| \div 4 \times 6 = 18$

$-|8 \times 3 + 4| = -28$ $\quad (-3 - 7)^2 = 100$ $\quad -2 + (-9) = -11$

5. x 30 degrees
perimeter 19 cm
area 14 sq. cm
Classification:
sides scalene
angles right

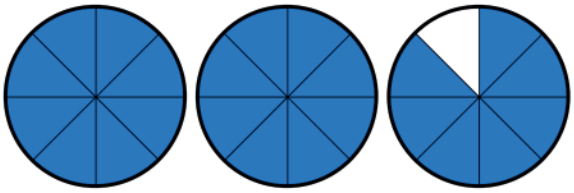
6. perimeter 26 units
area 30 units^2

7. radius 5 cm
diameter 10 cm
circumference 31.4 cm
area 78.5 sq. cm

8. 1/2
1/4
3/4

9. $\frac{5}{12}$ $\quad 1\frac{1}{3}$ $\quad \frac{1}{4}$ $\quad \frac{2}{3}$
$\frac{1}{3}$ $\quad \frac{1}{6}$ $\quad \frac{7}{10}$ $\quad \frac{1}{4}$

10. 75 cents 75%

11. 

12. Find the products.

5.33	3.785	19.47	82.6	11.99
x 2.5	x 1.98	x 12.2	x 2.8	x 9.8
2665	30280	3894	6608	9592
10660	340650	38940	16520	107910
133.25	378500	194700	231.28	1175.02
	7.49430	237.534		

13.

Visual Fraction	Numerical Fraction	Decimal	Percent
	1/4	0.25	25%
	3/5	0.6	60%
	1/3	0.33	33%
	7/8	0.88	88%
	7/10	0.7	70%
	8/9	0.89	89%
	5/6	0.83	83%