Operations with Decimals

Name_____

1) 451.92 divided by 5.6 =

2) 2.45 x 7.8 =

3) 7.89 + 9766.8=

4) 67.29 - 3.866 =

5) 3.409 divided by 2.8 =

Operations with Fractions

Name_____

1)
The sum of
5 and ⅞ and 3 and 2/4

2)
The difference of
4 and ⅔ and 3 and ⅘

For #'s 3-5, draw pictures to help you know what operation to do. Modeling might be helpful, but is not required.

3) You need to feed your dog for 3 days. Each day he eats ¾ of a cup of food. How many cups of food will you need to feed the dog for 3 days?

4) How much chocolate will each person get if 3 people share ½ pound of chocolate equally?

5) What is the length of the rectangular field if the area is
2 ½ square miles and the width is ¾ mile?

Ratio Reasoning- Show all Work

Name_____

1) There are 13 girls and 15 boys in Scott's class. Write a ratio that expresses girls to everyone in the class.

Write a ratio that expresses boys to girls.

2) Scott drove 120 miles in 3 hours. What is the unit rate?

3) If the burger house sells 2 burgers for $3, how much will it cost for 5 burgers?

4) Carrie got 15 questions right on her test. She got 75 percent. How many questions were on the test?

What is her percent if she got 18 right on her test?

5) There are 12 inches in 1 foot. How many feet are in 42 inches?

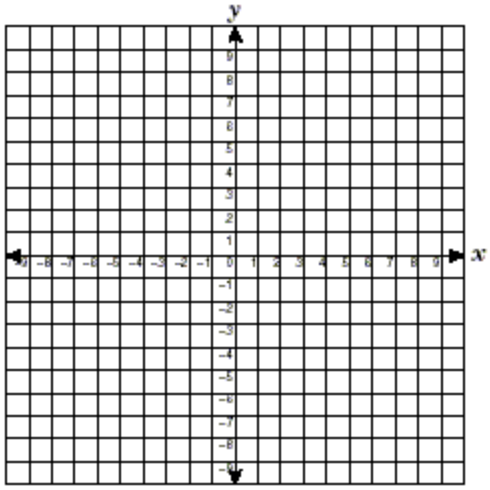
Algebra

1. p^2 + 5 x 7 – 2 Evaluate if p = 3

2. In the dark ages, Mrs. Cook earned $.75 per hour for baby sitting. Using the table determine how much money she makes after 1 hour, 3 hours and 7 hours.

x	y
1	
3	
7	

3. Graph the table and then tell how many hours will she have to work if she wants to make $10 for red Italian leather shoes?



4.

8+4=n+5

n=

5. Generate an equivalent expression for: 3(5y +2x)

Rational Numbers

Name_____

1

$-\frac{1}{2}$ ◯ $^{-}0.1$

2

Lesson 3.7

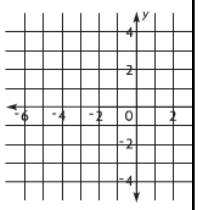
Graph and label the point on the coordinate plane.

25. $A(0, ^{-}2)$

26. $B\left(2, 3\frac{1}{2}\right)$

27. $C\left(^{-}4\frac{1}{2}, ^{-}1\right)$

28. $D(3, ^{-}2.5)$

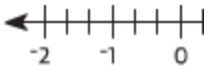


Lesson 3.8

3

Graph the number

11. $-\frac{2}{3}$



4

Find the distance between

32. $(7, ^{-}3)$ and $(1, ^{-}3)$

_____

5

Lena drew a rectangle with vertices at $(^{-}1, 1)$, $(^{-}1, ^{-}2)$, $(4, 1)$, and $(4, ^{-}2)$. What is the perimeter of the rectangle?

Greatest Common Factor, Least Common Multiple, and Distributive Property

Name_____

UNLOCK the Problem

REAL WORLD

A trophy case at Riverside Middle School holds 18 baseball trophies and 24 soccer trophies. All shelves hold the same number of trophies. Only one sport is represented on each shelf. What is the greatest number of trophies that can be on each shelf? How many shelves are there for each sport?

Use the graphic organizer to help you solve the problem.

1) What is the greatest number of trophies that can be on each shelf?

2) How many shelves are there from each sport?

3) What is the Prime Factorization of 18 and 24?

4) Use the distributive property to write (18 + 24) as a product with the GCF as one of the factors.

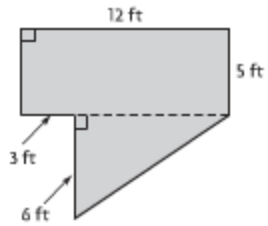
5) What is the least common multiple of 18 and 24?

Area, Surface Area, and Volume

Name_____

1) Find the area of the Shaded Region below

13.

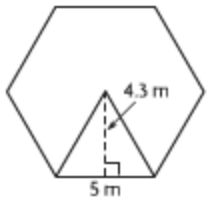


_____

2)

Find the area of the regular polygc

10.

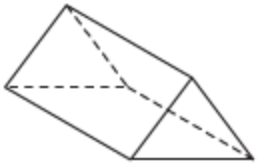


_____

3)

Identify and draw a net for the solid figure.

1.

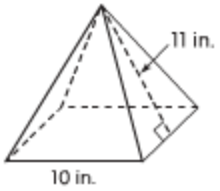


_____

4)

Find the surface area of the square pyramid.

9.

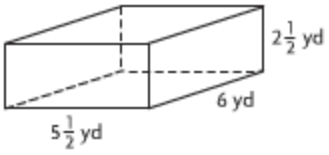


_____

5)

Find the volume.

13.



_____

Measures of Center, Variability, and Data Distribution

Name_____

1)Measures of Center Problem

Gavin records the times in minutes of several DVDs in his collection. The times are 125, 98, 150, 134, 203, 180, and 90. Find the mean, median, and mode of Gavin's data.

Mean: _____ Median: _____

Mode: _____

2) Mean Absolute Deviation Problem

Find the mean absolute deviation of the data.

9. the number of hours Mackenzie spent on homework each week: 4, 8, 7, 6, 8, 8, 5, 10

mean = 7

mean absolute deviation = _____

3) Histogram Problem

Lessons 12.3 and 12.4 (CC.6.SP.4)

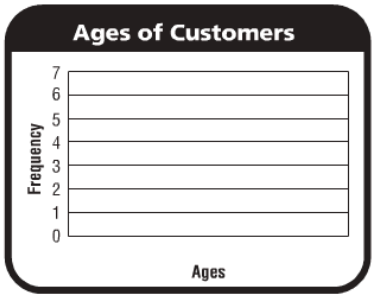
Kimiko is the owner of an online shoe store. In order to improve her advertising, she collects data on the ages of 25 of her customers. Her data is shown in the chart.

Ages of Customers				
22	37	59	45	44
18	20	25	46	52
22	31	38	31	22
50	18	24	29	46
51	19	35	36	45

3. Complete the relative frequency table below.

Ages of Customers		
Age	Frequency	Relative Frequency
10–19		
20–29		
30–39		
40–49		
50–59		

4. Complete the histogram for the data.



Measures of Center, Variability, and Data Distribution Continued

4)Dot Plot

Draw a dot plot of the data. Then use the plot to find the value that appears with the greatest frequency.

Number of Pretzels										
12	11	9	8	13	12	10	9	11	8	13
11	10	9	7	12	11	9	10	12	13	12
14	15	12	11	8	7	9	13	12	15	10

10. Megan opened several bags of pretzels and counted the number in each bag. The chart shows Megan's data. Complete the dot plot.

11. What is the mode of the number of pretzels in a bag? _____

5) Measure of Variation Question: Box Plot or Box and Whiskers

What is the range of the data in the problem?

The heights, in centimeters, of 8 apples are 8, 9, 10, 11, 12, 12, 13, and 13.

3. median = _____

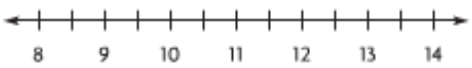
4. lower quartile = _____

5. upper quartile = _____

6. least value = _____

7. greatest value = _____

8. Make a box plot for the data.



Heights of Apples (cm)