Common Core Math

Grade 6

Final Review
10 Worksheets/Quizzes

Common Core Math
Grade 6
10-Worksheet Final Review

Each of the 10 worksheets has 8 or 9 different questions. After finishing all 10 worksheets, your students will have a completed a review of all the sixth grade common core math standards. Each standard is covered by at least one question. I am a sixth grade teacher and have successfully used these worksheets in my own classroom!

Use the worksheets to review before your year-end test or to fill those last weeks of school when all your curriculum has been taught.

Use the worksheets as a preassessment at the beginning of the year.

Analyze your students' performance to see where you need to review and reteach.

Do one worksheet a day or give them the entire set as a review packet.

Use these worksheets in the beginning weeks of 7th grade to review 6th grade concepts. Find your students' weaknesses.

Thanks for your purchase!
Jeni Hall

Please check out my other 6th grade products:
Weekly Reviews (30 weeks of daily reviews with a quiz for Friday)
Interactive Math Journal (covers all 6th Grade Math Standards)
Unit Plans (includes worksheets, activities, quizzes, etc.)

Name _____

1. 21.05 ÷ 0.2 = _____

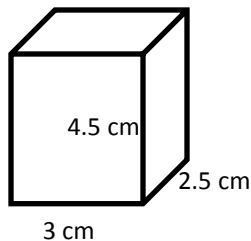2. Write a statistical question to find out students' favorite flavor of gum.

3. If 3 drinks cost $9.00, how much will 5 drinks cost?

_____

4. $4x + 2 = 10$
Which value of x from the following solution set makes this equation true?
                {1, 2, 3, 4}
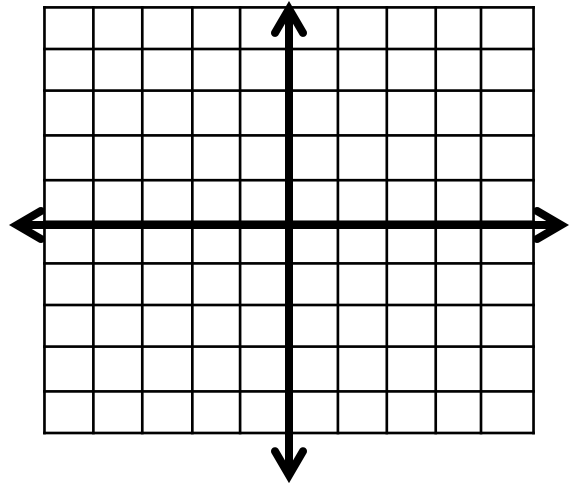
_____

5. Find the volume of the rectangular prism.

4.5 cm

2.5 cm

3 cm

6.   Plot the following points:
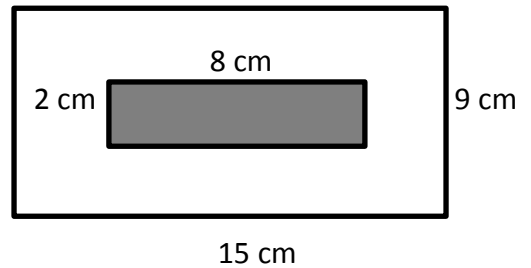A (-2, 2)   B (-4, -4) C (1, -4) D (3, 2)
Connect the points.

What is the name of the polygon?

How long is line segment AD?

What is the area of the shape?

7. What is the area of the white border?

8 cm

2 cm

9 cm

15 cm

_____

8. 87.32 x 7.5 = _____

1. $\dfrac{5}{6} \div \dfrac{1}{2} =$ _____

2. The points scored on a math quiz were:

  19 25 21 22 20 26 26 17

Find the Mean _____

Median _____   Mode _____

3. Write the unit rate for each of the following:

Jamal earned $36 for 4 hours of work.
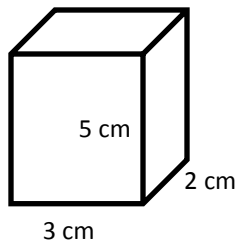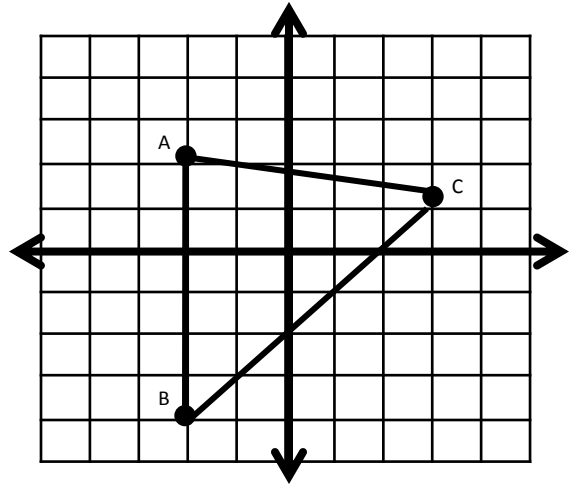
We traveled 350 miles in 7 hours.

20 pens cost $1.60

4. Evaluate the expression.

  $3^3 + 2 \times 20 - 4^3 =$ _____

5. Find the surface area of the rectangular prism.

5 cm

2 cm

3 cm

6. What would be the new coordinates of point B if it was reflected across the y-axis?

_____

7. The frequency table shows the students' scores on a recent math test. What percentage of the students scored at least 81 on the test?

Score	Frequency
41-50	1
51-60	2
61-70	8
71-80	12
81-90	20
91-100	7

_____

8. Kenyon arranged flowers in identical bouquets. If he had 21 red flowers and 28 yellow flowers, what is the greatest number of bouquets he could make?

_____

Name _____

1.   23.8 + 15.689 = _____

2.   Write the following in order from least to greatest:

$$0.7, \ 0.84, \ \frac{4}{5}, \ 82\%, \ \frac{71}{100}$$

_____

3. Samantha is riding a raft down a stream that is moving at a rate of 65 feet per minute. How far downstream does she travel in 5 minutes?
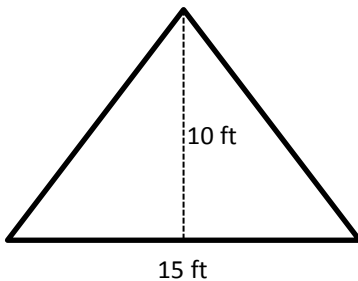
_____

4.   Evaluate the expressions for x = 6

3x + 5 = _____

$X^3 - 10 =$ _____

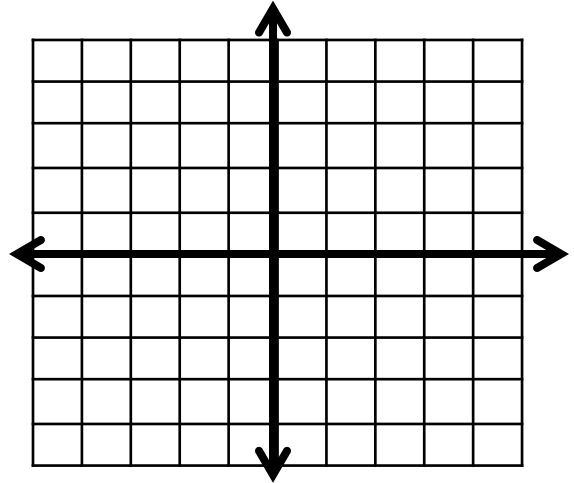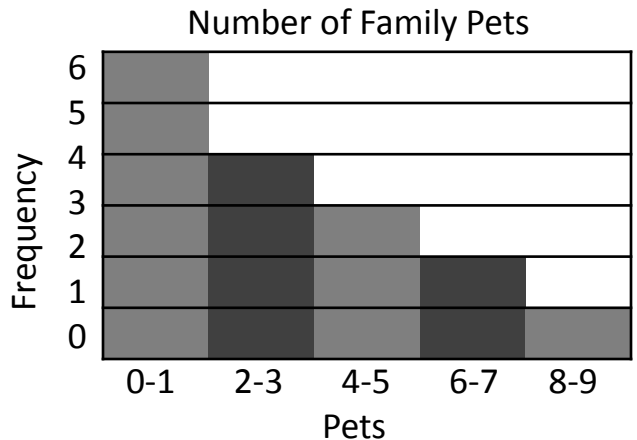5. Find the area of the triangle.

10 ft

15 ft

_____

6. What would be the other 2 coordinates of a square if one vertex is located at (-3, -1) and a second vertex is located at (3, -1)?

_____

7. The Hall Family garden is $\frac{3}{4}$ of an acre. If they divide their garden into $\frac{1}{8}$ acre sections, how many sections will they have?
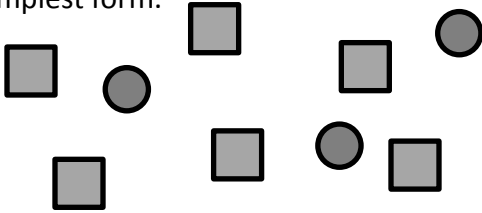
_____

Number of Family Pets

8. How many families have at least 4 pets?

_____

1. 67.3 x 0.89 = _____

2. Write the ratio of circles to squares in simplest form.

_____

3. Graph the inequality and then list 3 possible solutions.

$$x \leq -1$$

Possible solutions: _____

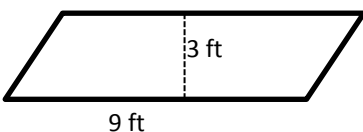4. Write an integer that represents each of the following situations.

15 feet below sea level _____

A deposit of $30 _____

The team lost 6 yards on the play _____

5. Find the area of the parallelogram.

3 ft

9 ft

_____

6. Courtney bought a shirt for $24 with a coupon for 25% off. What was the original price of the shirt before the discount?

_____

7. Marco is making beaded bracelets. Each bracelet will have the exact same number of red and blue beads. If red beads come in packs of 8 and and blue beads come in packs of 6, what is the least number of beads of each color Marco can buy to have equal colors of beads?

_____

8. Solve each equation.

x + 18 = 39   x = _____

r − 87 = 146   r = _____

8h = 136   h = _____

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

9. During the school fundraiser, Isaac sold tubs of cookie dough for $15 each. He made $165. Write an equation that could be used to find the number of tubs that Dominic sold.

_____

Name _____

1. $512.3 \div 0.25 =$ _____

2. Which two teams have equivalent ratios of wins to losses?

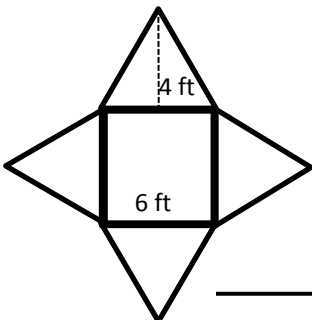| Team	Wins	Losses
Leopards	15	10
Pirates	12	8
Knights	14	7
Lions	18	10

_____

3. Mr. Hill has 27 students in his class and Mr. Chang has 24 students in his class. Both classes will be divided into equal sized teams within their own classes. What is the greatest number of students that can be on team so that all the teams are an equal number?

_____

4. Find the surface area of the square pyramid.

4 ft

6 ft

5. Write an algebraic expression for each of the following:

s divided by 10   _____

8 times b   _____

7 more than h   _____

8 less than the product of 3 and r

                       _____

6. A family drives for 4 hours at an average of 62 miles per hour. How far does the family travel?

_____

7. Mrs. Hall's sixth graders walk laps every day on the school track. The following are the number of laps the class completed in the last 12 weeks:

15, 18, 20, 20, 10, 22, 14, 7, 18, 19, 15, 23

Create a box plot of the data.

8. Fill in the missing values in the ratio table.

Feet	1			4	5
Inches		24	36		

1. 23.7 – 15.863 = _____

2. Write an inequality for each of the following situations:

The temperature was less than 7° F.

You must be at least 42 inches tall to ride the rollercoaster.
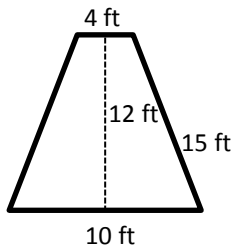
The repairs to the car will be at least $125.

3. Combine like terms and apply the distributive property to create an equivalent expression.

2(5a + 3b) + 5a + 2b = _____

6y + 2(3x + 5) + 2y + 3 = _____

$8r + 3r^2 + 6r^2 + 2r + r$ = _____

4. Find the area of the trapezoid.

5. Raul has $\frac{4}{5}$ pound of modeling clay. He needs to divide the clay into bags that hold $\frac{1}{10}$ pound each. How many bags will he fill?
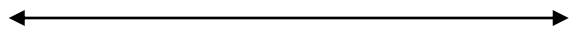
_____

6. If 2 bags of nuts cost $5.50, how much will 7 bags cost?

_____

7. Mrs. Allred's band members practiced the following numbers of hours last week:

2, 8, 5, 6, 8, 6, 6, 5, 2, 6, 6, 7

Create a dot plot of the data.

Label the gap and cluster in the data set.

What is the most common numbers of hours that the band members practiced?

_____

What is the total number of hours the band members practiced last week?

_____

8. 13% of 189 = _____

Name _____

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

2. The ratio of dogs to cats at the pet store is 1:3. If there are are 6 more cats than dogs, how many dogs are at the pet store?

_____

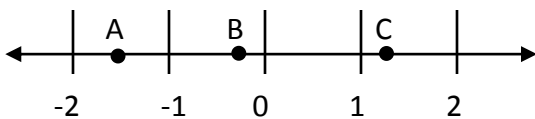3. Apply the distributive property in reverse to create an equivalent expression.

16a + 8b = _____

25g + 15 = _____

24f + 16b = _____
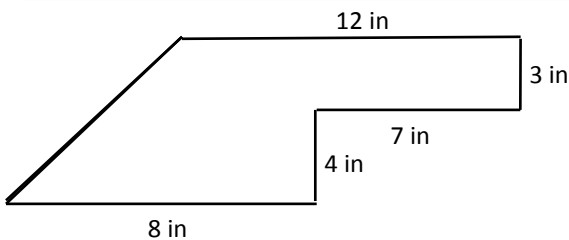
4. Identify the points on the number line.

A _____ B _____ C _____

5. Find the area of the complex shape.

6. Melanie is taking flute lessons. Her flute teacher charges $32.50 per hour. If Melanie has 2.5 hours of lessons each week, what is the weekly charge for her lessons?

_____

7. Seth rides the bus to work each day. He spends $2.25 on bus fare. Write an equation to represent the total amount he spent on bus fare for *d* number of days.

_____

What is the **independent** variable? _____

What is the **dependent** variable? _____

Create a table of values for the equation.

8. Minutes spent running each day:

39, 41, 56, 15, 25, 42, 55, 23, 15, 25, 18, 22, 29, 31, 35, 45, 45, 19, 53, 40, 35, 28, 32, 48, 59, 22, 29, 52, 25, 35, 45, 15, 18, 55, 23, 28

Create a frequency chart of the data:

Minutes	Frequency

Name _____

1. Solve each equation.

x + 37 = 103   x = _____

r – 52 = 207   r = _____

7d = 161   d = _____

$\frac{m}{8}$ = 12   m = _____

2. The 120 sixth graders are going on a field trip to the museum. The museum requests a ratio of students to adult chaperones of 8:1. How many adult chaperones will be needed?
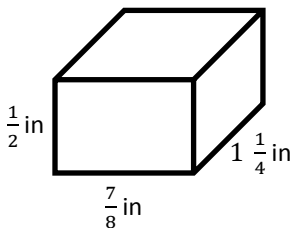
_____

3. Write an inequality for each of the following situations:

You need to sell at least 25 tickets.

You can't be more than 40 pounds to ride the ponies.

There were less than 12 people in the class.

4. Find the volume of the prism.

$\frac{1}{2}$ in $1\frac{1}{4}$ in $\frac{7}{8}$ in

_____

5. Petra has $5\frac{3}{4}$ yard of ribbon to make necklaces. She wants to make 4 necklaces that are the same length. How long will each necklace be?

_____

6. Place the integers in order from least to greatest.

- 10, -6, 8, 1, 9, -3, 0

_____

7. Hannah wants to rent a bike. Bike rentals cost $15 per hour plus a one-time fee of $8. Write an equation to represent the relationship between the number of hours *h* Hannah rents the bike and the total cost *c*.

_____

8. On a map of a campground, the swimming pool is located at (2, -3), the camp store at (2, 8,) and the tent at (-7, 8). If each unit represents 5 feet, how many feet will it be to walk from the tent to the store and then to the pool?

_____

Name _____

1. $2\frac{3}{4} \div 1\frac{7}{8} =$ _____

2. Which is the better buy?

    5 books for $12.00
    OR
    4 books for $10.00

3. Math Test Quiz Scores:

16, 20, 22, 25, 25, 20, 15, 18, 19, 20, 23, 17

Find the Mode _____
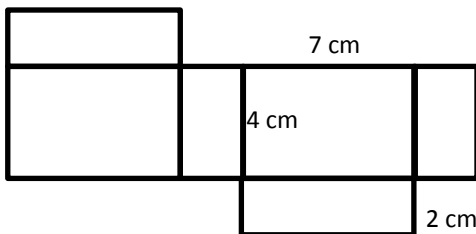
Median _____ Mean _____

4. Find the measures of variability for the math test scores from problem 3.

Range _____

Mean Absolute Deviation _____

5. Find the surface area of the prism.

7 cm

4 cm

2 cm

_____

6. Find the prime factorization of each of the following:

36: _____

60: _____

75: _____

7. Maurisa gets $8 per week for an allowance. She saves 25% of her allowance each week. How long will it take Maurisa to save $16?

_____

8. Devin is driving from Salt Lake City, Utah, to Denver, Colorado. So far he has driven 80% of the distance, or 400 miles. How far is the distance from Salt Lake City to Denver?

_____

9.

$|-6|$ = _____ $|7|$ = _____

$|17|$ = _____ $|-3|$ = _____

$|0|$ = _____ $|-15|$ = _____

The opposite of -6 = _____

The opposite of 8 = _____

The opposite of the opposite of -10 = _____

Name _____

1. 34.8 + 6.879 = _____

2. The ratio of boys to girls in the school choir is 3:4. If there are 12 girls in the choir, how many boys are in the choir?

_____
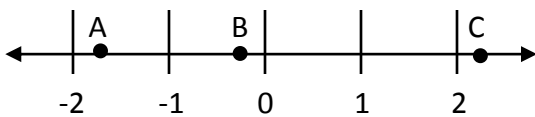
3. 18% of 87 = _____

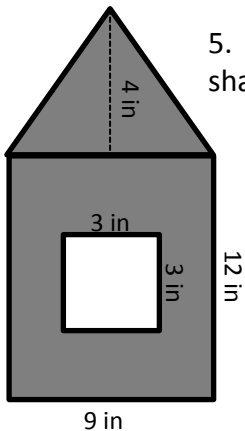45% of 175 = _____

7% of 98 = _____
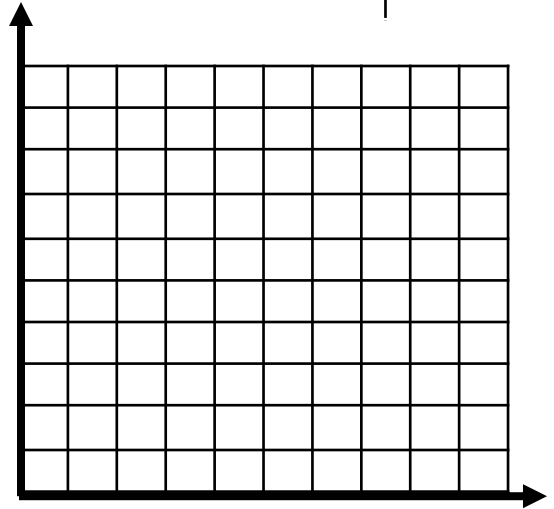
4. Identify the points on the number line.

A _____ B _____ C _____

5. Find the area of the shaded region.

_____

6. Create a table of values then graph the following equation:

$x + 2 = y$

x	y

7. $8^2 - (5^2 + 1) =$ _____

$15 - 3^2 + 15 \div 3 =$ _____

8. Ages of students in a dance class:

6, 7, 8, 8, 5, 9, 10, 8, 8, 9, 7, 5, 11, 5, 11, 9

Make a box plot for the data.

What is the interquartile range? _____

Answer Key

Final Review #1
1. 105.25
2. Sample: What is the favorite flavor of gum of the sixth graders?
3. $15
4. 2
5. 33.75 cm^3
6. Check plotted points
   Parallelogram, 5 units, 30 u^2
7. 119 cm^2
8. 654.9

Final Review #2
1. 1 $^2/_3$
2. Mean-22, Median-21.5, Mode-26
3. $9/hour, 50 mph, $0.08/pen
4. 3
5. 62 cm^2
6. (2, -4)
7. 54%
8. 7 bouquets

Final Review #3
1. 39.489
2. 0.7, $^{71}/_{100}$, $^4/_5$, 82%, 0.84
3. 325 ft
4. 23, 206
5. 75 ft^2
6. (-3, 5) (3,5)
7. 6 sections
8. 10 families

Final Review #4
1. 59.897
2. 1:2
3. Check graphs for accuracy
4. -15, 30, -6
5. 27 ft^2
6. $32
7. 24 beads
8. 21, 233, 17, 48
9. 15t = 165

Final Review #5
1. 2049.2
2. Leopards and Pirates
3. 3 students/team
4. 84 ft^2
5. s ÷ 10, 8b, 7 + h, 3r -8
6. 248 miles
7. Check box plots
8. 2, 3, 12, 48, 60

Final Review #6
1. 7.837
2. t < 7, i ≥ 42, r ≥ 125
3. 15a + 8b, 6x + 8y +13, 9r^2 + 11r
4. 84 ft^2
5. 8 bags
6. $19.25
7. Check dot plots
   6, 67 hours
8. 24.57

Answer Key Continued

Final Review #7
1. $1\frac{1}{2}$
2. 3 dogs
3. 4(4a + 2b), 5(5g + 3), 8(3f + 2b)
4. $-1\frac{1}{2}$, $-\frac{1}{4}$, $1\frac{1}{4}$
5. 66.5 in²
6. $81.25
7. t = 2.25d
   independent- d
   dependent- t
   Check value table
8. Sample frequency chart (intervals may vary)

Minutes	Frequency
11-20	6
21-30	11
31-40	7
41-50	6
51-60	6

Final Review #8
1. 66, 259, 23, 96
2. 15 adults
3. $t \geq 25$, $p \leq 40$, $p < 12$
4. $\frac{35}{64}$ in³
5. $1\frac{7}{16}$ yard
6. -10, -6, -3, 0, 1, 8, 9
7. c = 15h + 8
8. 100 feet

Final Review #9
1. $1\frac{7}{15}$
2. 5 books for $12
3. Mode-20, Median-20, Mean-20
4. Range-10, MAD-2.5
5. 100 cm²
6. $36 = 2^2 \cdot 3^2$, $60 = 2^2 \cdot 3 \cdot 5$
   $75 = 3 \cdot 5^2$
7. 8 weeks
8. 500 miles
9. 6, 7, 17, 3, 0, 15, 6, -8. -10

Final Review #10
1. 41.679
2. 9 boys
3. 15.66, 78.75, 6.86
4. $-1\frac{2}{3}$, $-\frac{1}{4}$, $2\frac{1}{4}$
5. 117 in²
6. Check values table and graphs for accuracy
7. 38, 11
8. Check box plot for accuracy
   median—8, first quartile—6.5
   third quartile—9, min—5,
   max—11, IR—2.5