3rd Quarter Assessment Study Guide

***6.3 – Integers***

1. Order the following integers from least to greatest: 4, -5, 0, -51, -12, 21, 5 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Compare the following using <,>, or =
	1. -4\_\_\_0 b. -43\_\_\_-34 c. -3567\_\_\_\_\_-3576
3. What is absolute value?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Identify the absolute value of the following integers:
	1. 5 = b. -12 = c. -17 = d. 112 =
5. What is the opposite of an integer?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Identify the opposite of the following integers:
	1. 6 \_\_\_\_\_ b. -523\_\_\_\_\_\_ c. -21\_\_\_\_\_\_ d. 59\_\_\_\_\_\_

***6.11 – Coordinate Graphing***

1. Identify the quadrants on the given coordinate plane.
2. Which is first in the ordered pair x or y? (think of the alphabet)

 Place the x and y in the correct place ( \_\_, \_\_)

1. Identify which quadrant each point will lie in:
	1. (4, -2) \_\_\_\_ b. (6, 4) \_\_\_\_\_ c. (-12, -3)\_\_\_\_ d. (-7, 8)\_\_\_\_\_

***6.20/7.15 – Inequalities***

1. x > 5 should have an open or closed circle?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. 6 < t should have an open or closed circle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Graph the following inequalities
	1. c ≥ -3 b. 3 < s

c. t < 7 d. x < -2

***6.1 – Ratios***

1. Using the following shapes, write the given ratio as a fraction in simplest form

⭘⭘⭘🞏🞏🞏⧫⧫⧫⧫⧫⧫⧫⧫

1. Circles to squares \_\_\_\_\_\_\_\_\_ b. diamonds to circles\_\_\_\_\_\_\_
2. diamonds and circles to squares \_\_\_\_\_\_\_\_\_\_
3. The total to circles or squares \_\_\_\_\_\_\_\_\_\_\_
4. There are 32 books on a shelf 8 are mystery and the rest are informational. What is the ratio of informational to mystery? Write as a fraction in simplest form.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***6.2/7.1 – Fractions, Decimals, and Percentages***

1. Change $\frac{17}{20 }$ to a decimal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Change 2% to a decimal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Fill in the following chart

|  |  |  |
| --- | --- | --- |
| Fraction | Decimal | Percent |
| 7/10 |  |  |
|  | .62 |  |
|  |  | 8% |

1. Place the numbers in order from greatest to least

¾, 2/5, .36, 17%, 6/7, 1, 4/8, 0

***6.6 – Operations with Fractions***

1. When adding or subtracting fractions you must find a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Find the sum or difference of the following:
	1. 2 ¾ + 4 5/6 b. 10 1/8 – 5 2/3 c. 9 – 4 7/9
3. When multiplying or dividing mixed number you must turn them into \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Multiply the following
	1. 4/5 x ¼ b. 3 2/5 x 4 1/9 c. 9 x 3 1/3
5. Divide the following fractions.
	1. 4/5 ÷ 2/3 b. 5 ÷ 7/8 c. 5 2/5 ÷ 1 3/10
6. How are adding and subtracting fractions similar? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***6.4 – Representations of Multiplying and Dividing Fractions***

1. MODEL the following multiplication problems.
	1. 5 x 1/3 b. 1/5 x 2/3
2. MODEL and solve the following division problems.
	1. 4 ÷ 1/5

b. ¾ ÷ 1/2

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***6.8 – Order of Operations***

1. Write the four important steps for Order of Operations
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Solve the following problems using the order of operations
	1. 3 + (5-2)2 ÷ 3 b. 3(5) + 2(2)3 ÷ 4

Ordered Pair and Coordinate Graph

Use the following graph to plot these points: D (-3,2) E (5, 3) G (-3,-5) J (4, -3)



Name the quadrant for each point listed above:

D \_\_\_\_\_\_\_\_\_ E \_\_\_\_\_\_\_\_\_ G \_\_\_\_\_\_\_\_\_\_ J \_\_\_\_\_\_\_\_\_\_