Name_____

Rising Grade 7 Summer Math

Please email me at kcarrier@broadwateracademy.org if you have any questions and I will be happy to help. Nothing in this packet is new information, we have covered everything throughout fifth and sixth grade. Use your book or the internet as a resource to help if you get stuck.

Use order of operations to simplify the following problems. You may use a calculator, but show all the steps needed to simplify. Please review negative integer rules if needed.

$5 + (-3) \bullet 7 =$

$(-4-2)(12-15) =$

$7^2 - 4 \times 6 + 2 =$

$\frac{5^3-5^2}{(-10)+20} =$

$9 + (-7) - 2 - (-6) =$

$\frac{(6-2)^3}{4^2 \bullet 2 \bullet 2} =$

Combine the like terms in the following problems.

$4w + 2y + 8w + 3y$

$7bh - 2hb + 12$

$11m - 3m^2 + 7m$

$g - 4h + 2g^3 - 2h + 3g$

The following problems require one step to find the value of the variable. Remember to use inverse operations to solve these problems.

$j - 8 = 21$

$6r = 126$

$2 + k = 13$

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

$-7d = -49$

$p - (-9) = 11$

The following problems require two steps to find the value of the variable. Remember to use inverse operations to solve these problems.

$4k - 3 = 25$

$9 - 2q = 13$

$\frac{y+10}{2} = 15$

$-5v + 3^2 = 54$

$\frac{1}{2}m - 11 = 43$

$\frac{2}{3}p + (-4) = 20$

Reorder this number set from smallest to largest.

$$9,\ \frac{14}{3},\ -7,\ 2^5,\ -0.09,\ \frac{-15}{3}, 0.1,\ \frac{3}{4},\ -2^3$$

Add, subtract, multiply, or divide the following problems. Show all work.

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

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

$7\frac{2}{4} \bullet 2\frac{4}{5} =$

$5\frac{4}{12} \div 2\frac{4}{6} =$

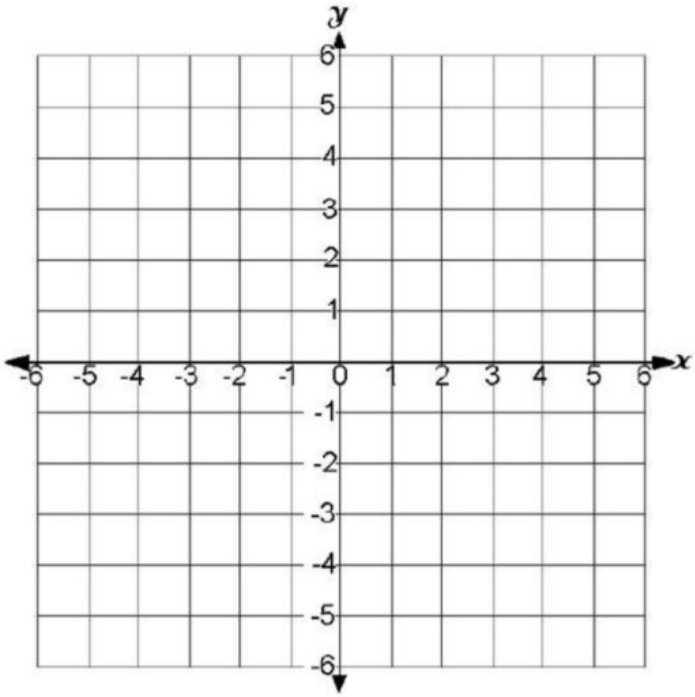
There are five apples in a pack. If all apples weigh $6\frac{2}{3}$ pounds together, how much does one apple weigh if they all weigh the same amount?

The pizza restaurant starts each day with 40 pounds of dough. If each pizza requires $\frac{5}{15}$ of a pound of dough. What is the largest number of pizzas they could make?

Mike is following a secret family soup recipe. He needs $\frac{5}{6}$ of a cup of boiled skunk, $3\frac{1}{4}$ of a cup of jelly beans, and $\frac{17}{8}$ of a cup of soda. How many total cups of ingredients does Mike need?

Place and label the ordered pairs on the coordinate grid. Remember the x-coordinate is the first number and y-coordinate is the second number, (x,y).

Point A (2,3) Point B (-4,1) Point C (3,-1) Point D (-1,-5)



State what quadrant each ordered pair would fall in on a coordinate plane.

(x,y):

(x,-y):

(-x,-y):

(-x,y):

In your own words, explain how graphing data helps people share and explain information with each other. Minimum five sentences.