Math Madness #100

1. Which equation shows the relationship of the values in the table below?

a. $a = 2b$

b. $a = \frac{b}{2}$

c. $b = a - 2$

d. $b = a + 2$

a	b
6	12
7	14
8	16
9	18

2. In the equations below, △ represents one number and ▭ represents another number.

▭ × ▭ = **225**   ▭ × △ = **9,075**

What is the value of △?

a. 15
b. 65
c. 150
d. 605

3. Salty brand crackers are Joseph's favorite. After school he ate 20 crackers. If a serving size is 5 crackers, and each serving contains 1.5 grams of fat, how many fat grams were in his snack altogether?

a. 4.5 grams
b. 6 grams
c. 7.5 grams
d. 8 grams

4. A baker is making 2 different types of cookies. One cookie recipe calls for $1\frac{1}{5}$ cups of sugar. The other recipe calls for $\frac{3}{10}$ cup of sugar. How much sugar does the baker need in all?

a. $\frac{9}{10}$ cup   c. $1\frac{1}{2}$ cups

b. $1\frac{1}{10}$ cups   d. $1\frac{4}{5}$ cups

5. Each of the 30 students in a class voted for their favorite subject. Here are the results:

How many students voted for the math?

a. 3
b. 5
c. 6
d. 8

> $\frac{2}{5}$ voted for reading
>
> $\frac{1}{10}$ voted for science
>
> $\frac{3}{10}$ voted for social studies
>
> The rest of the class voted for math.

6. Janice and Mallory each made punch. Janice added 1 gallon of lemonade to her punch. Mallory added $\frac{1}{4}$ as much lemonade to her punch. How much lemonade did Mallory add?

a. 1 cup
b. 2 cups
c. 1 quart
d. 2 quarts

7. Which statement about the measure of a straight angle is true?

a. a straight angle measures four times a right angle
b. a straight angle measures twice a right angle
c. a straight angle measures one half of a right angle
d. a straight angle is the same measure as a right angle

8. A square is a parallelogram that is also a —

a. rectangle and rhombus
b. rectangle and trapezoid
c. rhombus and trapezoid
d. trapezoid and kite

9 & 10 (2 points) Short Answer / Extended Response

Given the rule $x \times 3 = y$ and starting with the number 0, create a table to show the first 5 terms in the sequence. Plot the resulting ordered pairs on the coordinate plane.

x	y
0	