

**6th Review #69 – WORK MUST BE SHOWN FOR EACH PROBLEM – NO CALCULATORS (except on #6)**

1. Curtis bought a jar of 500 marbles. 75 of the marbles were blue, 200 marbles were green, 100 marbles were red, and the rest were yellow. What ratio below shows probability of randomly selecting a yellow marble? *(Show how you found the ratio)*

- A 1:4                                      C 1:2  
 B 2:5                                      D 3:4

2. In the expression below, what operation would be performed first? *(Prove and show the first operation)*

$$96 \div (2^3 + 4) - 4 + 25$$

- A division                                      C multiplication  
 B addition                                      D subtraction

3. Pat bought sugar at the store. The bag contained  $9 \frac{1}{2}$  cups of sugar. She wants to make brownies for a party. If the recipe for brownies uses  $2 \frac{3}{4}$  cups of sugar for each batch of brownies, about how many batches of brownies will she be able to make for the party? *(Show or draw a picture of how you found the number of batches)*

- A 6 batches                                      C 26 batches  
 B 3 batches                                      D 12 batches

Name \_\_\_\_\_

4. Circle all of the following that are true? *(Show how they are true or false)*

- A  $0.056 > 20\%$   
 B  $\frac{5}{9} < 60\%$   
 C  $2:5 > 30\%$   
 D  $58\% < 0.8$

5. Clark ran  $3 \frac{1}{2}$  miles on Monday and  $1 \frac{3}{4}$  miles on Wednesday. If he runs the same number of miles each weeks for 3 weeks in a row, how many miles will he have run? *(Show how you found the total for 3 weeks)*

- A  $5 \frac{1}{4}$  miles  
 B  $15 \frac{3}{4}$  miles  
 C  $10 \frac{1}{2}$  miles  
 D  $36 \frac{3}{4}$  miles

6. Is the following table proportional? Explain your answer.

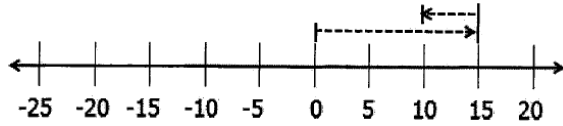
X	Y
2	2
3	3
6	6
7	7

**Adv. Review #69 (7<sup>th</sup> grade SOLs)**

**SHOW HOW YOU SOLVED EACH PROBLEM – NO CALCULATORS!**

**7.**

A model is shown.



Which number sentence is represented by the model?

- F  $10 + 5 = 15$
- G  $15 + (-5) = 10$
- H  $(-15) + 5 = 10$
- J  $10 - (-5) = 15$

**8. Solve the following:**

$$-1 \cdot 50 \div -10 + (-8 \div -4) + 1^9$$

**9.**

Dacia made a snack mix using the ingredients listed below.

$1\frac{1}{4}$ cups granola	$\frac{3}{4}$ cup peanuts
$\frac{1}{2}$ cup raisins	$\frac{1}{4}$ cup chocolate chips

What is the total amount of all four ingredients?

- A.  $1\frac{3}{4}$  cups
- B.  $2\frac{1}{4}$  cups
- C.  $2\frac{1}{2}$  cups
- D.  $2\frac{3}{4}$  cups

**10. If the temperature is -10 degrees outside at 7:00pm, and then at 10:00pm the temperature is 9 degrees, what is the change in temperature?**