6th Review #75 – WORK MUST BE SHOWN
FOR EACH PROBLEM – NO CALCULATORS (except on #1,3)

1. Which operation should be used to solve the equation $58 = n - 24$? *(Show why)*

   A   Add 58 to both sides of the equation.

   B   Add 24 to both sides of the equation.

   C   Subtract 58 from both sides of the equation.

   D   Subtract 24 from both sides of the equation.

2. **Compare the following**: *(Show how you compared the following)*

   - 16 _____ - 6   8 _____ -22

                  - 4 _____ 0

3. Solve for *n*. *(Show inverse & what you did to both sides of the equation)*

   $$\frac{n}{8} = 13$$

Name_____

4. Marquis had 7 raspberry, 3 blueberry, 6 cream cheese, and 4 lemon pastries in a box. If he randomly picks one without looking, what percent represents the probability of pulling out a raspberry pastry? *(Show how you found the fraction and turned it into a percent)*

   A   7%

   B   35%

   C   13%

   D   54%

5. Which of the following is true? *(Show how you compared the numbers)*

   A $^5/_8 > {}^3/_4$

   B $^3/_5 < 0.09$

   C $45\% < 0.7$

   D $64\% > 0.08$

6. Evaluate the following expressions: *(Show GEMDAS and work)*
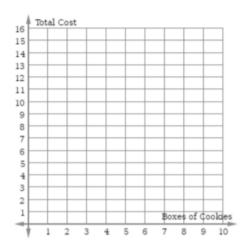
   $$7^2 + (9 - 5)^2 \div 8 \bullet 3$$

 SHOW HOW YOU SOLVED EACH PROBLEM – NO CALCULATORS!

7. Solve.

$$\frac{-7 \cdot -3 + 10^2}{-11}$$

9.

What is the first step in simplifying the expression $(2 - 3 \times 4 + 5)^2$?

A. square 5

B. add 4 and 5

C. subtract 3 from 2

D. multiply 3 by 4

8. Melody is selling boxes of cookies for $3 per 2 boxes. Create a ratio table and a graph that represents this proportional situation.

Boxes	Cost

10. If 16, 25, 36, 49... is the pattern, what is the next perfect square number? Show how you know.