

**6th Review #59 – WORK MUST BE  
SHOWN  
FOR EACH PROBLEM – NO CALCULATORS**

1. Mr. Ritchie bought 5 cases of mello yellow. Each case holds 6 cans of mello yellow. If  $\frac{1}{3}$  of the mello yellow was diet, how many cans of mello yellow are diets? (*HINT: draw a fraction strip to find  $\frac{1}{3}$* )

- A 10                                      C 3  
B 6    D 12

2. Jessica was making hats for the school play. Each hat needed  $1\frac{5}{6}$  yards of fabric. If they need 5 hats for the play, how many yards of fabric will she need? (*Show how you solved the problem*)

- A  $9\frac{1}{6}$                                       C  $\frac{11}{30}$   
B  $5\frac{5}{6}$                                       D  $2\frac{8}{11}$

3. Which of the following is true? (*Show how*)

- A  $5^3 < 10^2$                                 C  $2^5 = 10$   
B  $1^4 > 3^2$                                 D  $6^3 > 10^2$

Name \_\_\_\_\_

4. Circle all of the following that are true. (*Show why they are true*)

- A  $|-15| > -8$                             C  $36 = -36$   
B  $|2| < 0$                                  D  $|-9| > |3|$

5. Model to solve:  $5 \div \frac{5}{6}$  (*Show model and answer*)

6. Jacob's square garden measured 12 feet on each side. He wants to cover the garden with fertilizer. How many square feet will need to be fertilized? (*Draw the figure; write the formula; then solve*)

**Adv. Review #59 (7<sup>th</sup> grade SOLs)**

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

**7. Solve the following according to order of operations:**

$$1 \times (-2 + 3) \times (-9 + 7)$$

**8. The number 225 is a perfect square number. Draw a square in the space provided that proved that 225 is a perfect square.**

**9. Using problem #8, solve the following:**

$$\sqrt{225} = \underline{\hspace{2cm}}$$

**10. Model the following expression with counter chips (+, -); then solve.**

$$-14 + 3$$

