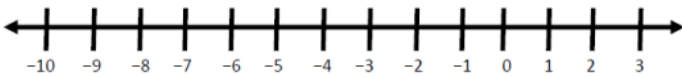


**6th Review #78 – WORK MUST BE SHOWN FOR EACH PROBLEM \*No calculators on 2**

1. Graph the inequality: *(Prove graph)*

$$n + 1 \leq -5$$



2. Which property is shown below? *(Explain why)*

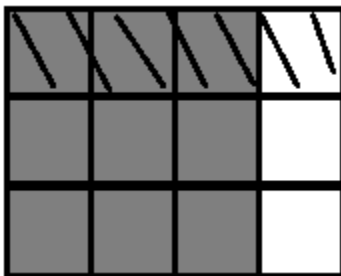
$$a \bullet \frac{1}{a} = 1$$

- A Associative Property
- B Commutative Property
- C Identity Property
- D Inverse Property

3. The rectangle is divided into sections of equal size. What percent of the rectangle is shaded? *(Show work for percent)*

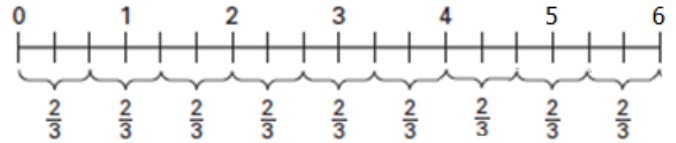


4. Write a multiplication expression that represents the model? *(Show work)*



Name \_\_\_\_\_

5. Write a division expression that represents the model? *(Prove answer)*

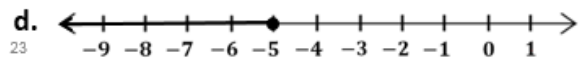
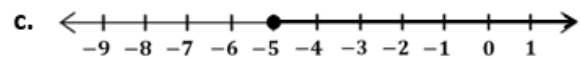
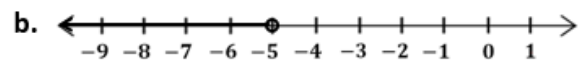
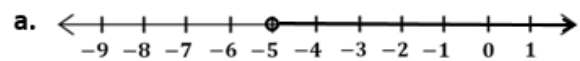


6. Which expression below is equivalent to  $6^4$ ?

- A  $4 \times 4 \times 4 \times 4 \times 4 \times 4$
- B  $4 \times 4$
- C  $6 \times 6 \times 6 \times 6$
- D  $6 \times 6 \times 6 \times 6 \times 6 \times 6$

7.

Which graph best represents the inequality  $-5 \leq y$  ?



8. Jane made \$200 raking leaves and \$125 baby-sitting. If she saves  $\frac{1}{5}$  of her earnings this summer, how much money will she be able to put in savings? *(Show work)*

**Adv. Review #78 (7<sup>th</sup> grade SOLs)**

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

**7. Solve.**

$$-42 \div 6 \cdot 2 + 4$$

**8. What is the value for  $n$  that makes the equation true? (Show inverse operations)**

$$\frac{d}{6} = 1.5$$

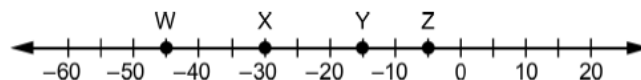
- A 0.25
- B 4.5
- C 7.5
- D 9

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

$$2 + -9$$

**10.**

Use the number line to answer the question.



The number line shows the air temperature, in degrees Fahrenheit ( $^{\circ}$ F), outside an airplane at four different elevations. What is the difference in temperature outside the airplane between elevation W and elevation Z?

- A.  $-45^{\circ}$ F
- B.  $-5^{\circ}$ F
- C.  $15^{\circ}$ F
- D.  $40^{\circ}$ F