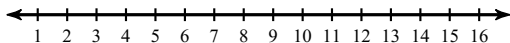


SM2-A HW #4-8 (Part 2)

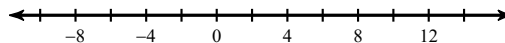
Date _____ Period _____

Write the solution to the inequality in: (a) Simplified inequality notation, (b) Interval notation then (c) graph the solution.

1) $|x - 9| \geq 3$



2) $|r - 2| < 10$



3) Match the Properties to the correct examples of those properties:

(a) $4 - 4 = 0$

(1) Distributive Property

(b) $5 \cdot 0 = 0$

(2) Identity Property. Of Multiplication

(c) $6 \cdot 1 = 6$

(3) Inverse Property of Addition

(d) $5 \cdot \frac{1}{5} = 1$

(4) Inverse Property of Multiplication

4) What does it mean to say that two equations are "equivalent"?

5) Solve for 'x'

$3x + 6y = 9$

6) The area of a rectangle is 280 square meters. If the width is 7 meters:

a) What is the length

b) What is the perimeter?

7) The area of a trapezoid is given by the following formula:

$$A = \frac{1}{2}h(b_1 + b_2) \quad \text{Solve for } h \text{ (one step rewrite)}$$

8) The area of a trapezoid is 147 square feet. If the height is 14 feet and one base is 9 feet, what is the length of the other base?