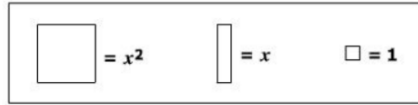


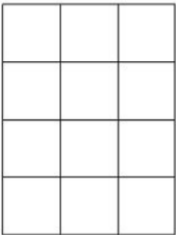
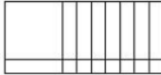

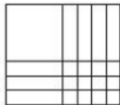
Algebra Review #41 SHOW HOW YOU SOLVED EACH PROBLEM

NAME _____

1. Look at this key.



Which model correctly represents the product of $(x + 3)$ and $(x + 4)$?

- A 
 C 
- B 
 D 

2. Which expression is equivalent to $(3x^{-4})^2 (5x^{-2})$?

- A $\frac{30}{x^{10}}$
 B $30x^{14}$
 C $\frac{45}{x^{10}}$
 D $45x^{14}$

3. Which property of real numbers justifies the work shown?

$$13x - 1 = (12x + 15) + 7x$$

$$13x - 1 = 7x + (12x + 15)$$

- A Commutative property of addition
 B Associative property of addition
 C Identity property of addition
 D Distributive property

4. A system of inequalities is shown.

$$\begin{cases} y > \frac{1}{2}x + 1 \\ y + 3x \leq 6 \end{cases}$$

From the given points, select each point that is a solution to this system of inequalities.



5. The formula shown can be used to find A , the amount of money Raul has in his savings account.

Raul wants to find r , the rate of interest his money earns. Which equation is correctly solved for r ?

$$A = P + Prt$$

- A $r = APt$
 B $r = A - 2Pt$
 C $r = \frac{A}{2Pt}$
 D $r = \frac{A - P}{Pt}$

6. Which equation represents the horizontal line passing through $(7, 5)$?

- A $x = 5$
 B $y = 5$
 C $x = 7$
 D $y = 7$

7.

What value of p will make this equation true?

$$\frac{6p+4}{6} = \frac{4p-8}{3}$$

- A -10
- B -6
- C 2
- D 10

8.

What is the slope of the line represented by this equation?

$$3x + 5y = -7$$

Slope =

9. Using the ordered pairs shown, create a relation containing three ordered pairs with a domain of $\{-1, 2, 4\}$.

{ , , }

$(-3, -1)$	$(4, -2)$
$(-1, 0)$	$(3, 4)$
$(-2, 2)$	$(2, 3)$

10.

This relation is an inverse variation.

$\{(-1, 8), (4, -2), (-2, 4)\}$

Which equation represents this relation?

- A $y = -3x + 5$
- B $y = -2x$
- C $y = \frac{-x}{8}$
- D $y = \frac{-8}{x}$