

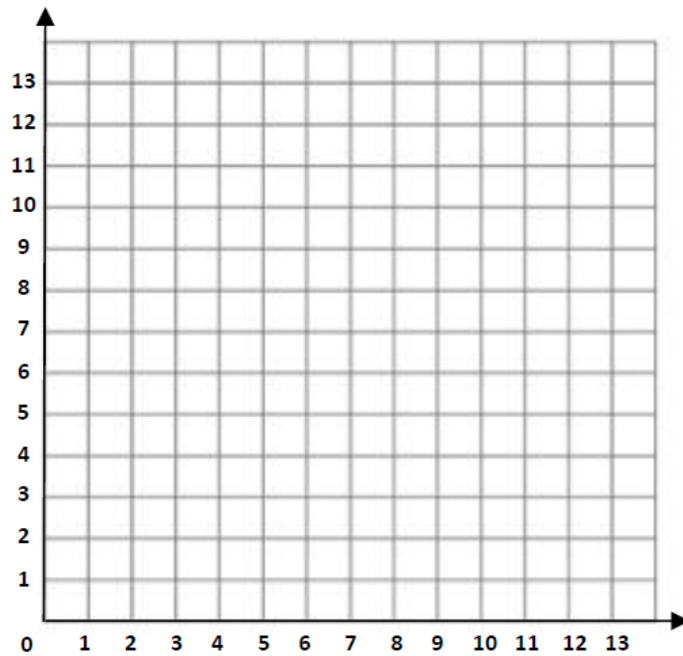
Look for the following vocabulary in the questions below:

## **Review (from last year)**

- **Coordinate Graph**
- **Coordinate Pair**
- **Variable**
- **Dependent Variable**
- **Independent Variable**
- **Equation**
- **Formula**
- **Function**
- **Relationship**
- **Pattern**
- **Representation**
- **Rule**
- **Scale**
- **Table**
- **x-axis / horizontal axis**
- **y-axis / vertical axis**

2. Place the following ordered pairs on the coordinate grid shown below:

$(9, 0)$   $(2, 6)$   $(8, 5)$   $(0, 7)$



3. According to a research study, the higher the level of education a person has completed the higher income level the person will earn over his or her lifetime. What are the two variables in this study? Which one is the independent variable and which one is the dependent? Explain.

Independent variable: \_\_\_\_\_

Dependent Variable \_\_\_\_\_

Explain:

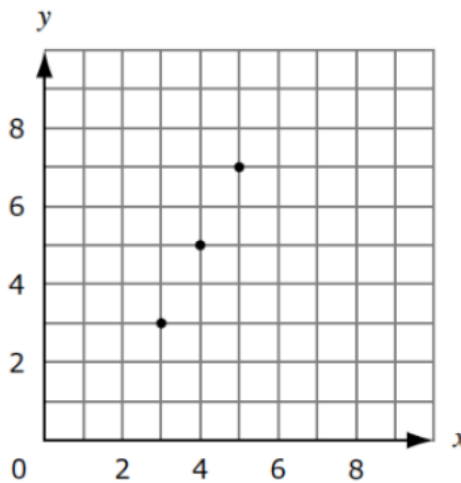
5. A vending machine has 700 candy bars in it. On average, people buy 5 candy bars per hour. If  $c$  represents the number of candy bars in the machine, which equation represents the number of candy bars left in the machine after  $h$  hours?

- a.  $c = 5h + 700$                       b.  $c = 700 - (h + 5)$   
 c.  $c = 700 + h$                         d.  $c = 700 - 5h$

6. Latisha has \$75.00 to spend at the Mall of America. Old Navy has sales with jeans for \$16.00 each and shirts for \$10.00 each. Which equation or inequality represents how many shirts and pairs of jeans Latisha can buy, if  $j$  represents the number of pairs of jeans and  $s$  the number of shirts?

- a.  $75 - 16j = s$                         b.  $(10 + 16) \cdot (j + s) = 75$   
 c.  $16j + 10s \leq 75$                     d.  $10s + 16j \geq 75$

9. Three points are shown on the grid. Which rule was used to plot the points? Circle the correct rule. Explain how you know your answer is correct.



- a.  $y = x$                                       b.  $y = x + 2$   
 c.  $y = \frac{1}{2}x + 3$                             d.  $y = 2x - 3$

Explain:

10. Use the pattern to complete the two blanks in the table. Then write an equation relating the two variables:

$m$	0	1	2	3	4	20
$n$	?	4	7	10	13	?

Equation: