

Patterns, Equations, and Graphs Bell Work

Tell whether the given equation has the ordered pair as a solution.

1. $y = \frac{3}{4} - x$ $(2, \frac{5}{4})$

2. $y = 7 - 3x$ $(1, 4)$

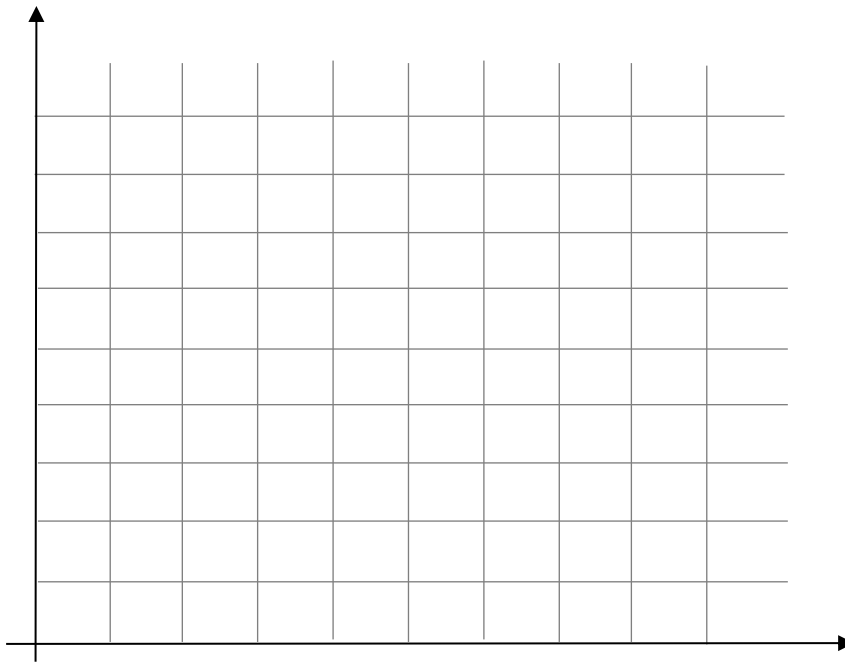
3. $y = -x$ $(1, -1)$

4. $x - 10 = \frac{2}{5}y$ $(4, -15)$

5. $4y = 5x$ $(4, 5)$

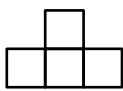
Use a table, an equation, and a graph to represent each relationship.

6. A salesman has a weekly salary of \$300 and \$10 for every machine he sells.

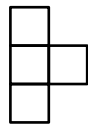


Predict the next figure in the each sequence.

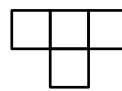
7.



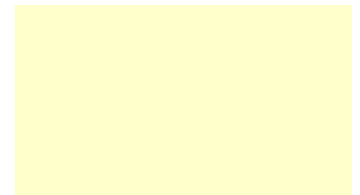
i.



ii.



iii.



iv.

Patterns, Equations, and Graphs Bell Work

ANSWER

Tell whether the given equation has the ordered pair as a solution.

1. $y = \frac{3}{4} - x$ $(2, \frac{5}{4})$

$$y = \frac{3}{4} - x \rightarrow \frac{5}{4} = \frac{3}{4} - 2$$

$$\frac{5}{4} = \frac{3}{4} - \frac{8}{4} \rightarrow \frac{5}{4} \neq -\frac{5}{4}$$

2. $y = 7 - 3x$ $(1, 4)$

$$y = 7 - 3x$$

$$4 = 7 - 3(1)$$

$$4 = 4$$

3. $y = -x$ $(1, -1)$

$$y = -x$$

$$-1 = -1$$

4. $x - 10 = \frac{2}{5}y$ $(4, -15)$

$$x - 10 = \frac{2}{5}y \rightarrow 4 - 10 = \frac{2}{5}(-15)$$

$$-6 = \frac{2}{1}(-3) \rightarrow -6 = 2(-3)$$

$$-6 = -6$$

5. $4y = 5x$ $(4, 5)$

$$4y = 5x$$

$$4(5) = 5(4)$$

$$20 = 20$$

Use a table, an equation, and a graph to represent each relationship.

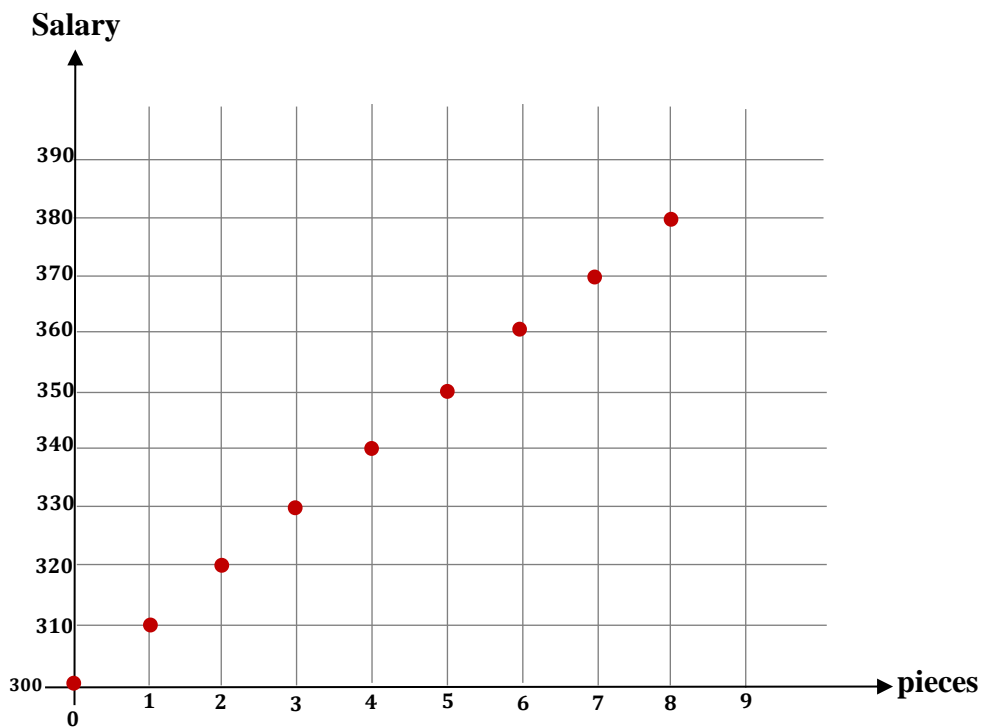
6. A salesman has a weekly salary of \$300 and \$10 for every machine he sells.

$$s = 300 + 10(x)$$

Where: s = Total salary

x = number of machine sold

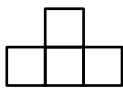
x (pcs)	s (\$)
0	300
1	310
2	320
3	330
4	340
5	350
6	360
7	370
8	380



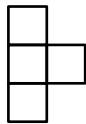
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Predict the next figure in the each sequence.

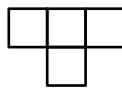
7.



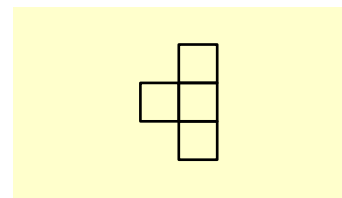
i.



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