Name: _____ Period: _____ Date: _____

# Patterns, Equations, and Graphs Assignment

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

1. $x = y + 6$ $(3, -3)$

2. $y - 6 = 3x$ $(1, 9)$

3. $y - 2x = 3$ $(5, 12)$

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

5. $y - 6x = 2$ $(2, 13)$

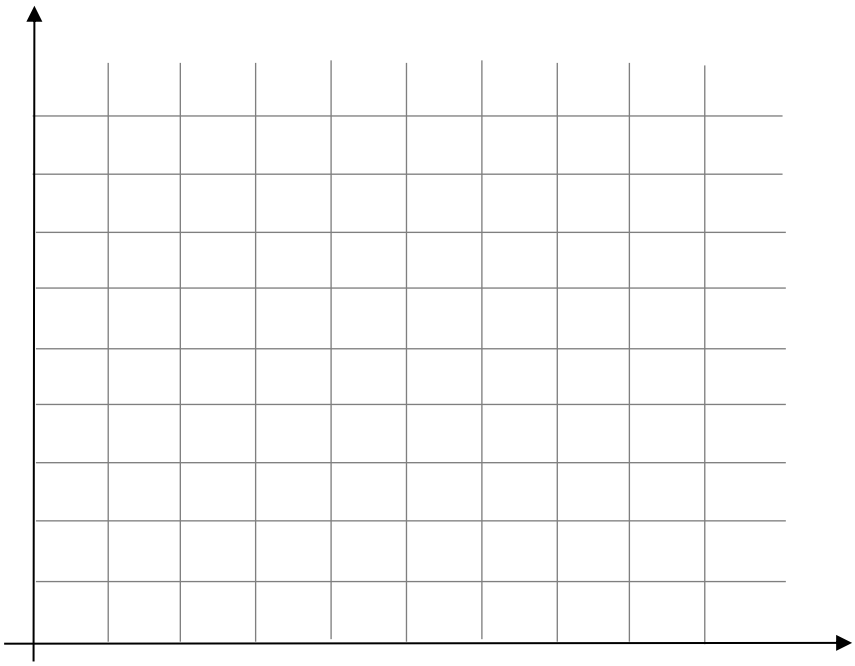
6. $y = x - 2$ $(2, 1)$

7. $x + 7 = y - 3$ $(3, 12)$

8. $x - 8 = 3y$ $(11, 1)$

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

9. Susy makes 3 bracelets per hour.



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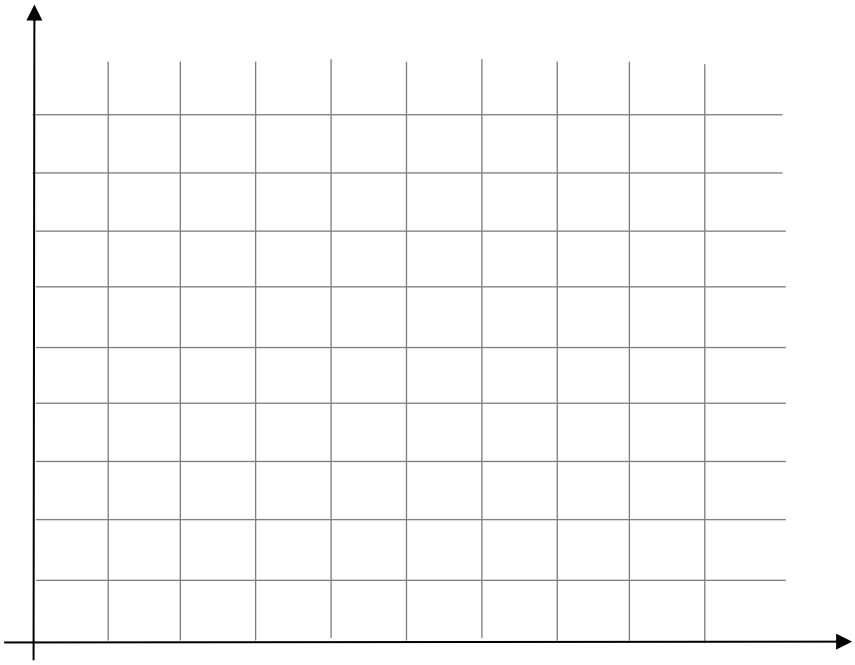
Name: _____ Period: _____ Date: _____

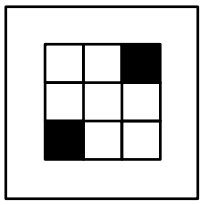
# Patterns, Equations, and Graphs Assignment

10. Tina earns $2.5 for every hour babysitting.

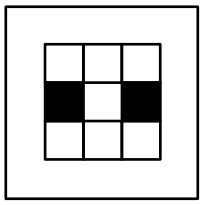


**Predict the next figure in the each sequence.**

11.



i.



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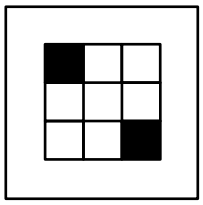

iii.

iv.

Name: _____ Period: _____ Date: _____

# Patterns, Equations, and Graphs Assignment

**ANSWER**

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

1. $x = y + 6$ $(3, -3)$

$$x = y + 6$$
$$3 = -3 + 6$$
$$3 = 3$$

2. $y - 6 = 3x$ $(1, 9)$

$$y - 6 = 3x$$
$$9 - 6 = 3(1)$$
$$3 = 3$$

3. $y - 2x = 3$ $(5, 12)$

$$y - 2x = 3$$
$$12 - 2(5) = 3$$
$$12 - 10 = 3$$
$$2 \neq 3$$

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

$$y = 2x + 3$$
$$-3 = 2(-3) + 3$$
$$-3 = -6 + 3$$
$$-3 = -3$$

5. $y - 6x = 2$ $(2, 13)$

$$y - 6x = 2$$
$$13 - 6(2) = 2$$
$$13 - 12 = 2$$
$$1 \neq 2$$

6. $y = x - 2$ $(2, 1)$

$$y = x - 2$$
$$1 = 2 - 2$$
$$1 \neq 0$$

7. $x + 7 = y - 3$ $(3, 12)$

$$x + 7 = y - 3$$
$$3 + 7 = 12 - 3$$
$$10 \neq 9$$

8. $x - 8 = 3y$ $(11, 1)$

$$x - 8 = 3y$$
$$11 - 8 = 3(1)$$
$$3 = 3$$

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# Patterns, Equations, and Graphs Assignment

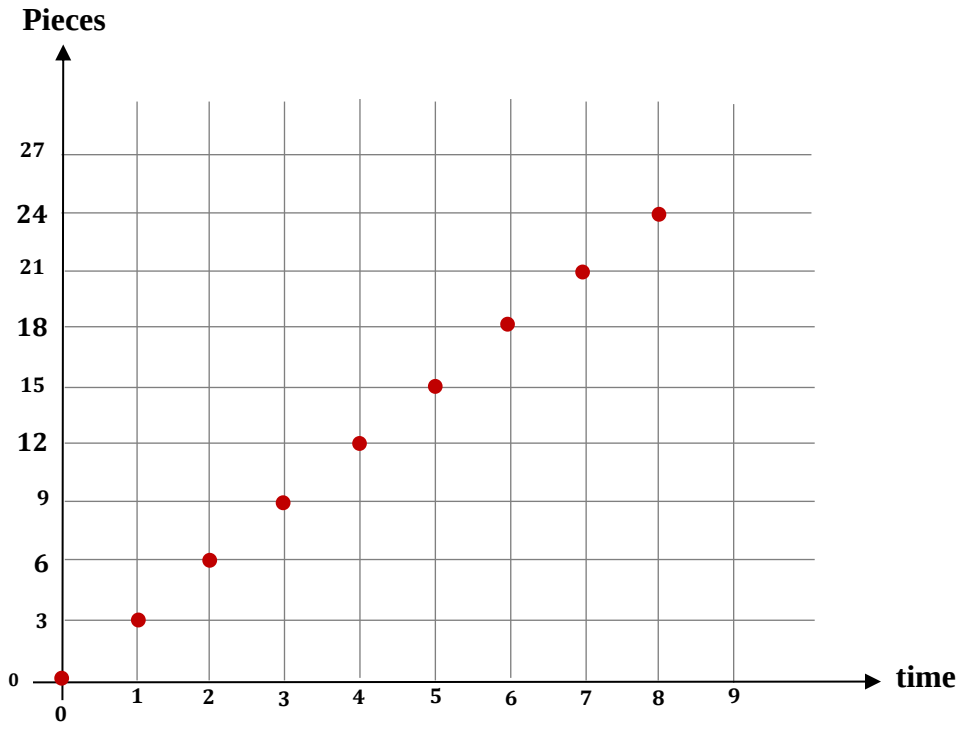
**Use a table, an equation, and a graph to represent each relationship.**

**9.** Susy makes 3 bracelets per hour.

$$p = 3(t)$$

Where: $p$ = Total number of bracelets made
$t$ = number of hours

| $t$ $(hour)$ | $p$ $(pcs)$ |
|---|---|
| 0 | 0 |
| 1 | 3 |
| 2 | 6 |
| 3 | 9 |
| 4 | 12 |
| 5 | 15 |
| 6 | 18 |
| 7 | 21 |
| 8 | 24 |



Name: _____ Period: _____ Date: _____

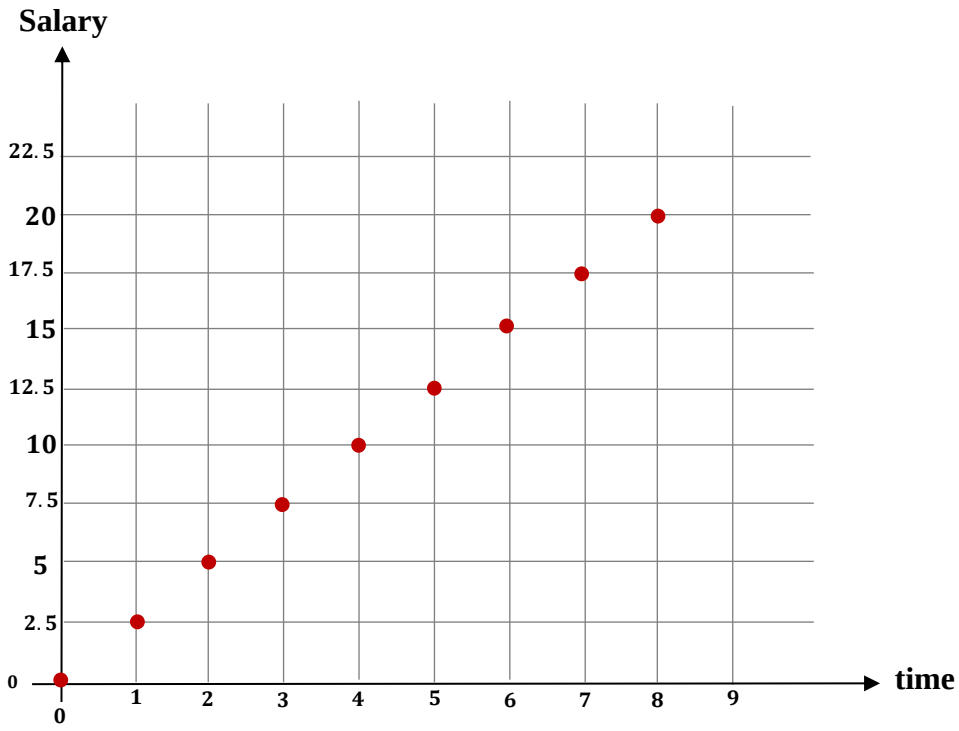
# Patterns, Equations, and Graphs Assignment

**10.** Tina earns $2.5 for every hour babysitting.

$$s = 2.5(t)$$

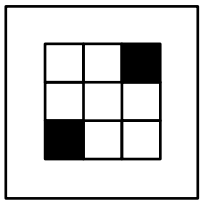
Where: $s$ = Total salary
$t$ = number of hours

| $t$ (hour) | $s$ ($) |
|---|---|
| 0 | 0 |
| 1 | 2.5 |
| 2 | 5 |
| 3 | 7.5 |
| 4 | 10 |
| 5 | 12.5 |
| 6 | 15 |
| 7 | 17.5 |
| 8 | 20 |

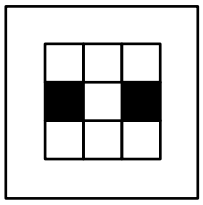



**Predict the next figure in the each sequence.**

11.



i.



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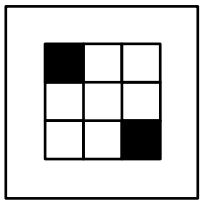

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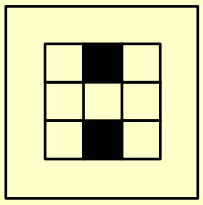

iv.

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