



Math 5

UNIT 8 - Patterns and Coordinate Planes 8-2 Patterns on the Coordinate Plane

Name:

Date:

Common Core Standards

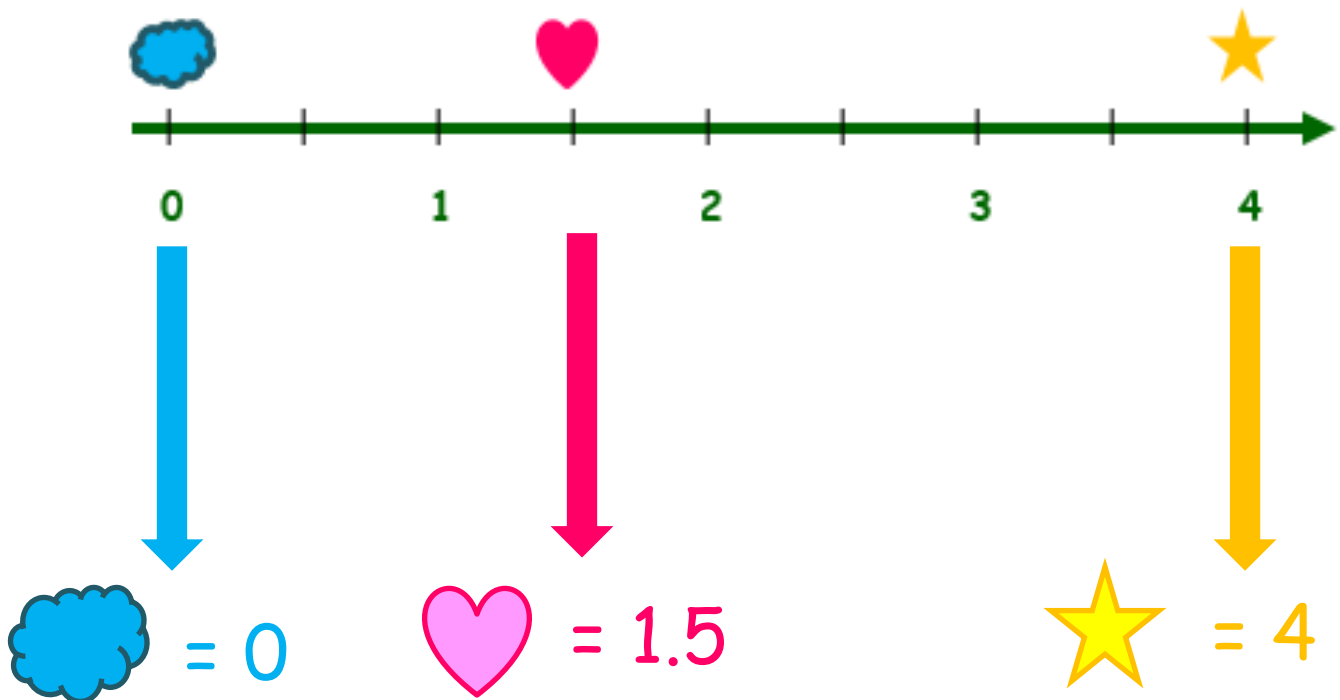
[CCSS.MATH.CONTENT.5.OA.B.3](#)

Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. For example, given the rule “Add 3” and the starting number 0, and given the rule “Add 6” and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.





8 - 2 Patterns on the Coordinate Plane


Coordinate System
on the Line




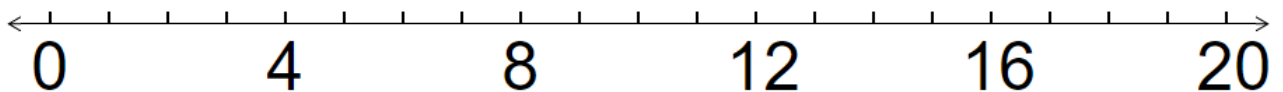
Draw the following symbols on the number line based on their values.

 = 0

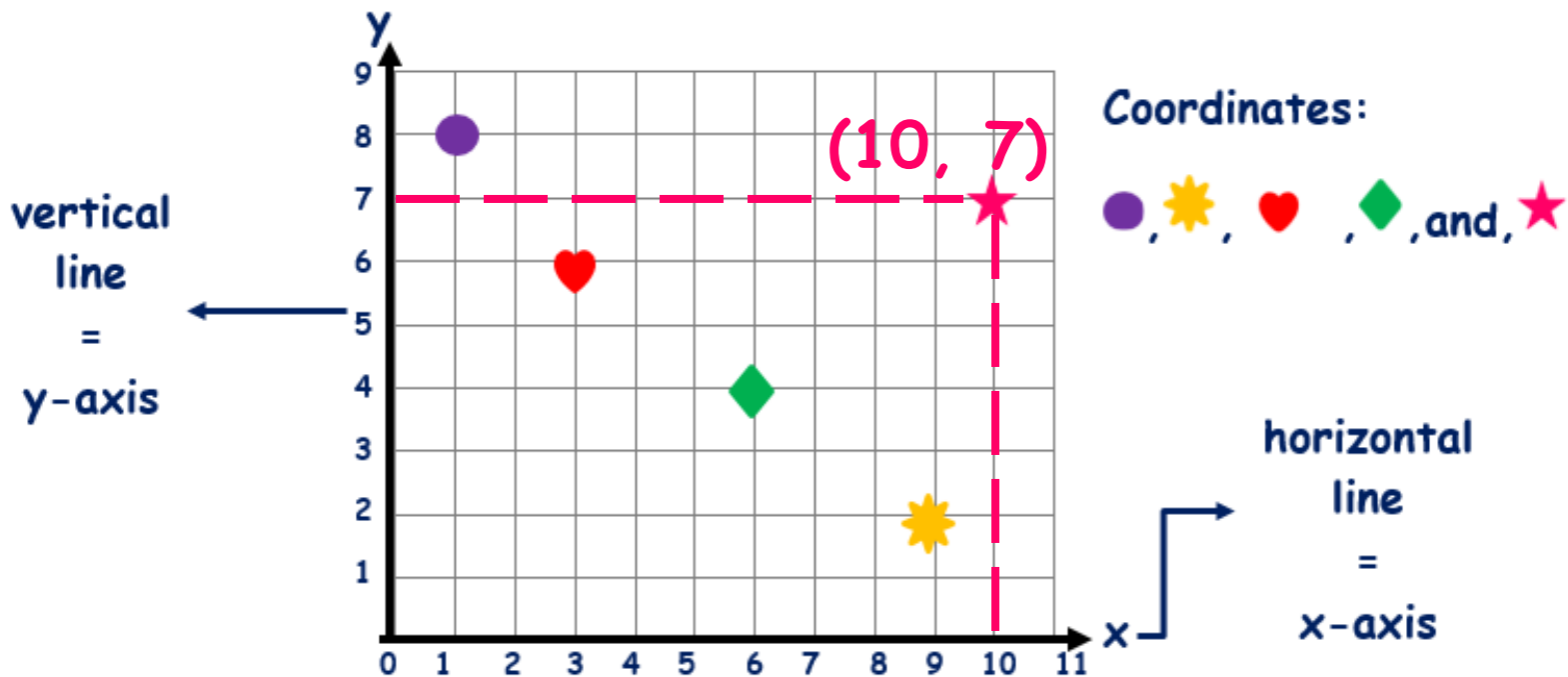
 = 5

 = 10

 = 17



Coordinate System on a Coordinate Plane



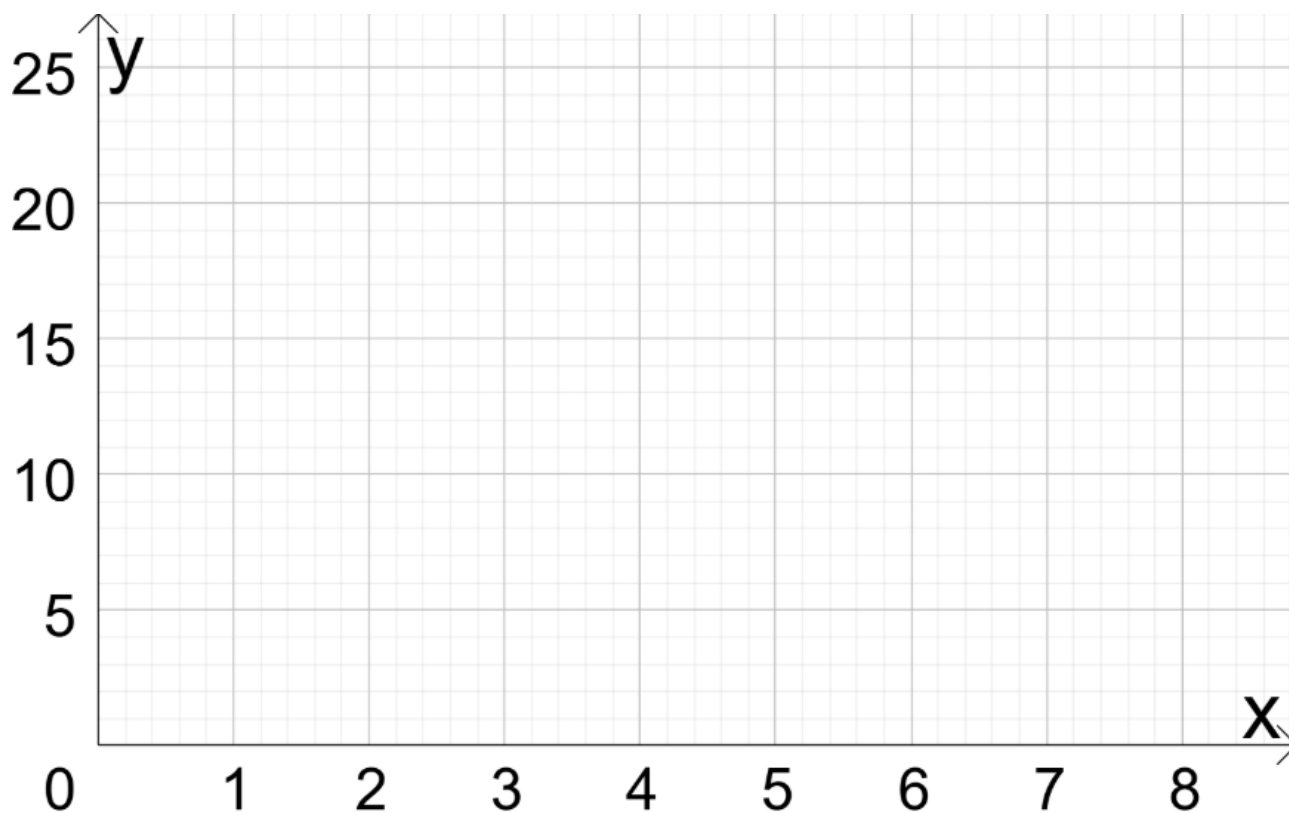
● = (1, 8)


♥ = (3, 6)


★ = (9, 2)


◆ = (6, 4)


Determine the value of the ordered pairs of the symbols below.



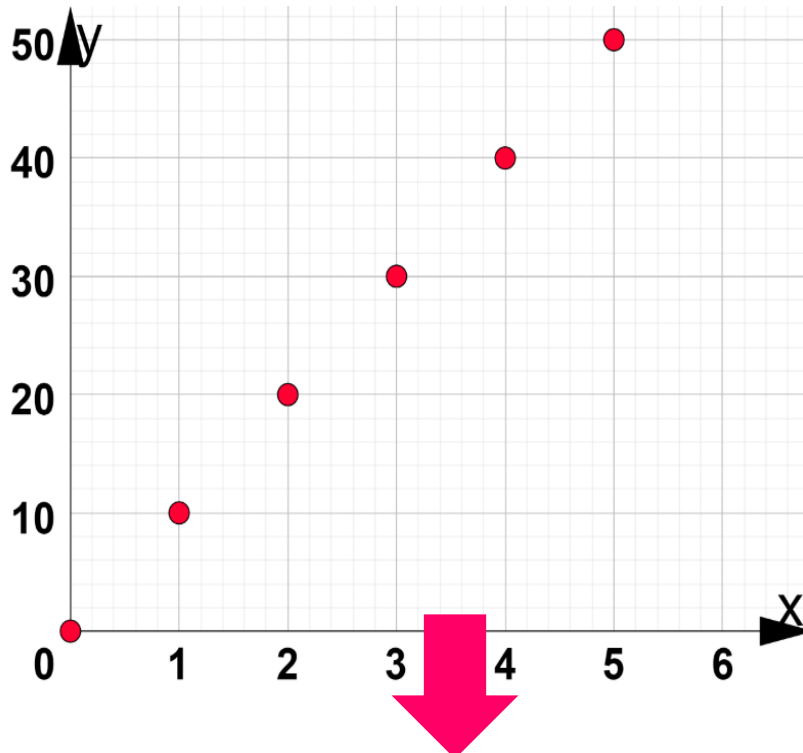
 = (0, 5)

 = (2, 10)

 = (4, 25)

 = (6, 5)

Number Patterns on Coordinate Planes



x	y
0	0
1	10
2	20
3	30
4	40
5	50

$$0 = 10(0)$$

$$10 = 10(1)$$

$$20 = 10(2)$$

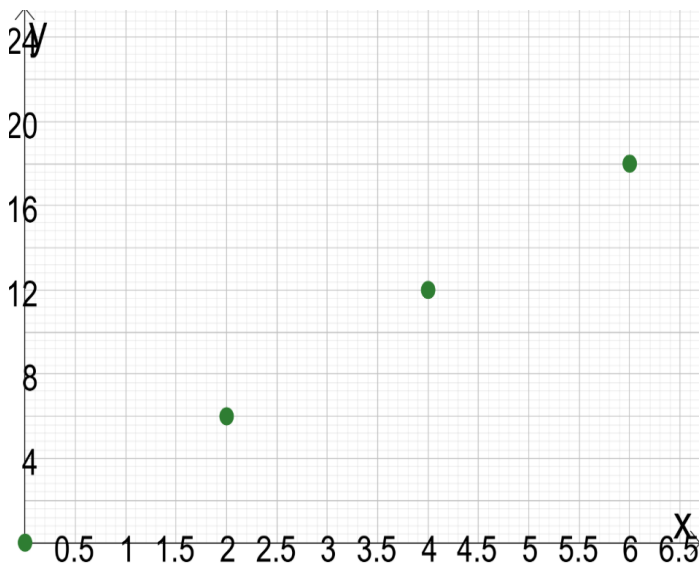
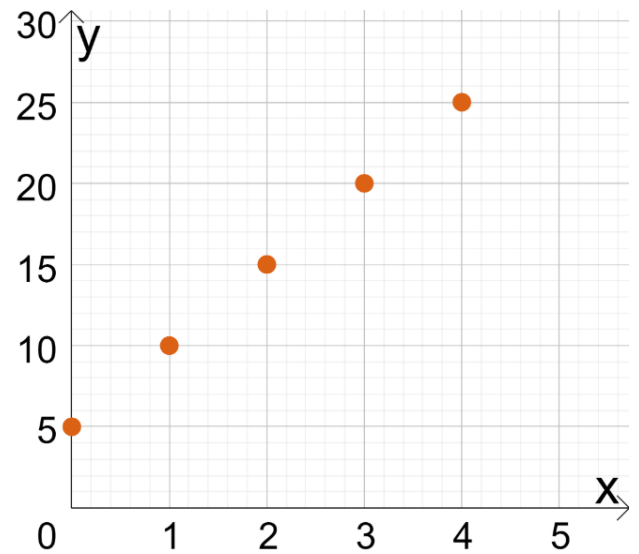
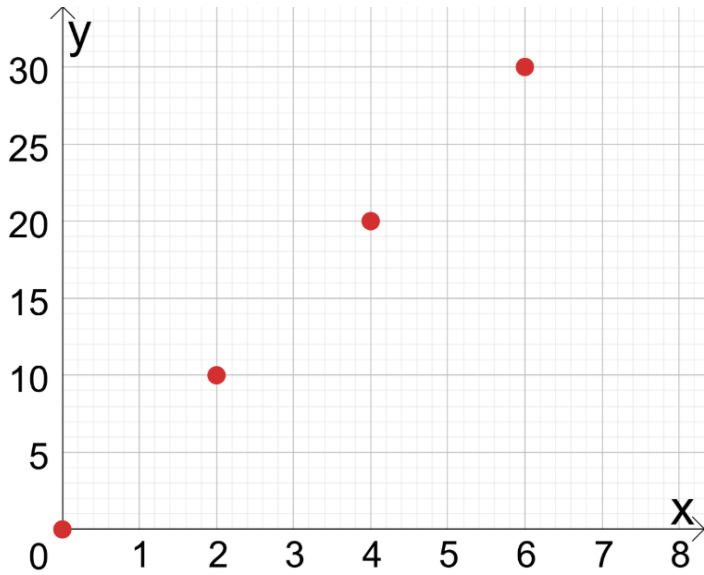
$$30 = 10(3)$$

$$40 = 10(4)$$

$$50 = 10(5)$$

$$y = 10x$$

Color the equations to
match it with the color of
its corresponding graphs.

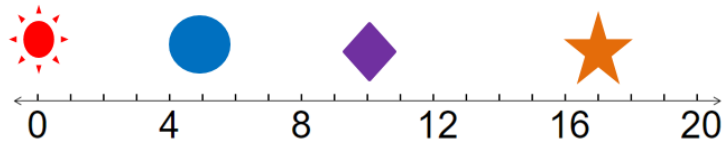


$$y = 3x$$

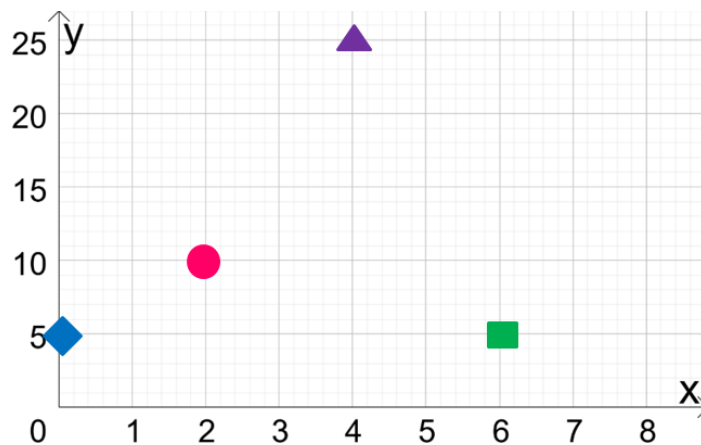
$$y = 5x$$

$$y = 5x + 5$$

Draw the following symbols on the number line based on their values.



Determine the value of the ordered pairs of the symbols below. $8n + 7$



Color the equations to match it with the color of its corresponding graphs. 41

$$y = 3x$$

$$y = 5x$$

$$y = 5x + 5$$