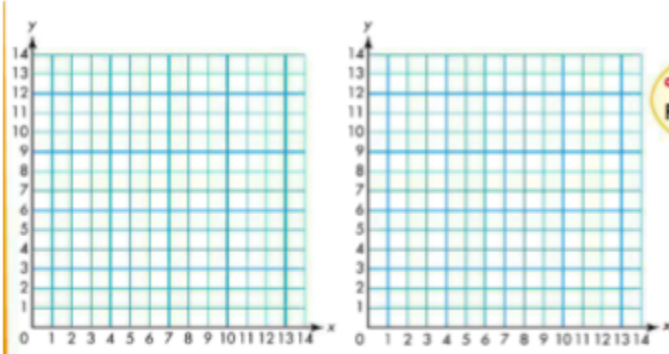## Lesson 14-1: The Coordinate System
Solve and Share

Content Standard: 5.G.A.1
I Can Statement: I can locate points on a coordinate grid.
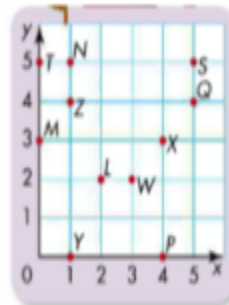
On the first grid, plot a point where two grid lines intersect. Name the location of the point. Plot and name another point. Do this twice and write a sentence about what you notice.

Lesson 14- 1: Independent Practice

For questions **1-6** write the ordered pair (x, y) for each point, using the grid.

1. T

2. X

3. Y

4. W

5. Z

6. S

For questions **7-11,** name the point for each ordered pair on the grid above.
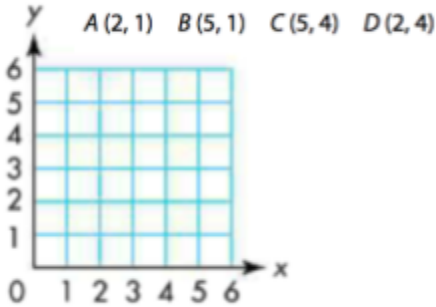
7. (2, 2)

8. (5, 4)

9. (1, 5)

10. (0, 3)

11. (4, 0)

Lesson 14-2: Graph Data Using Ordered Pairs
Solve and Share

Content Standard: 5.G.A.1
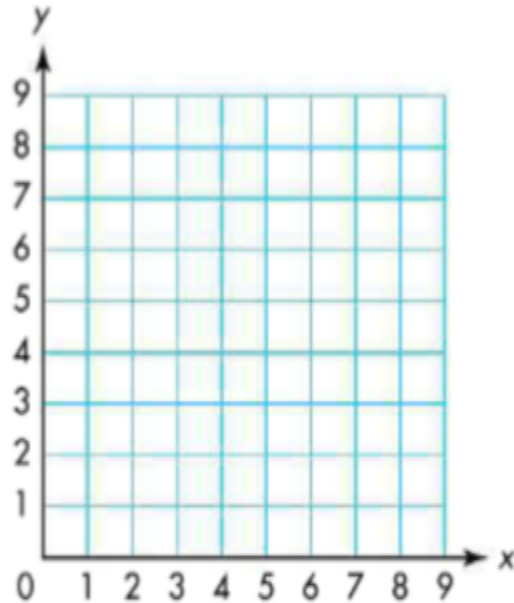**I Can Statement:** I can graph points on a coordinate grid.

Graph and label the point for each ordered pair below on the grid. Then connect the points with line segments to form a shape. What shape did you form?

A (2, 1)   B (5, 1)   C (5, 4)   D (2, 4)

Lesson 14- 2: Independent Practice

For questions **1- 12**, graph and label each point on the grid.

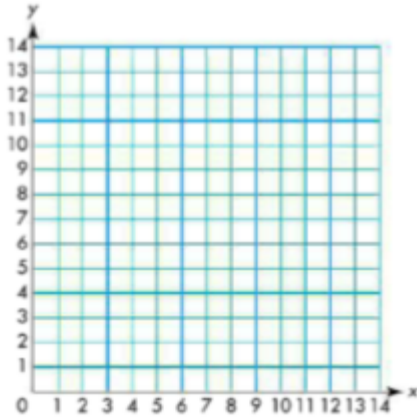|	
1. J (2, 6)	2. K (6, 2)
3. L (4, 5)	4. M (0, 8)
5. N (3, 9)	6. V (6, 6)
7. P (1, 4)	8. Q (5, 0)
9. R (7, 3)	10. S (7, 8)
11. T (8, 1)	12. U (3, 3)

Lesson 14-3: Solve Problems Using Ordered Pairs
Solve and Share

Content Standard: 5.G.A.1
I Can Statement: I can solve real-world problems by graphing points.

The table below uses number patterns to describe changes in width and length of a rectangle. Let x be the width and y be the length. Then plot each of the four ordered pairs in the table on the coordinate grid. What do you think the length is if the width is 5?
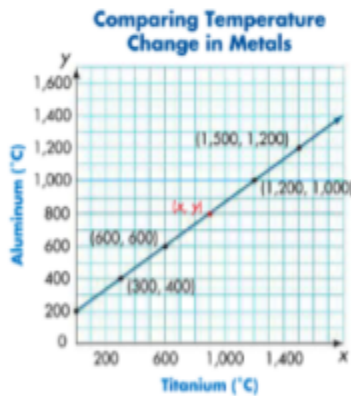
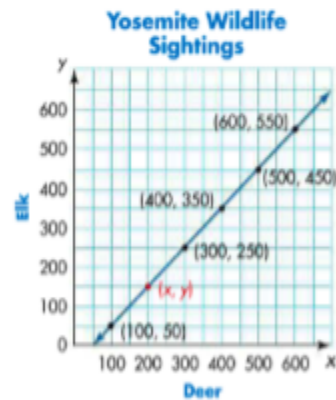|	Rule	Start			
Width	Add 1	1	2	3	4
Length	Subtract 1	11	10	9	8

Lesson 14- 3: Independent Practice

For questions **1- 2,** find the missing coordinates and tell what the points represent.

1.

Comparing Temperature Change in Metals

(1,500, 1,200)
(1,200, 1,000)
(x, y)
(600, 600)
(300, 400)

Aluminum (°C)
Titanium (°C)

2.

Yosemite Wildlife Sightings

(600, 550)
(500, 450)
(400, 350)
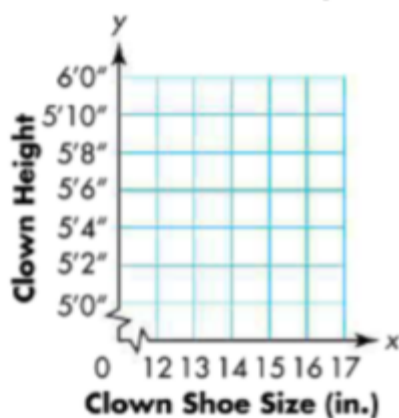(300, 250)
(x, y)
(100, 50)

Elk
Deer

3. For exercise 2, find two other points on the line. Then graph and label them. Describe the relationship between deer sightings and elk sightings.

Lesson 14-4: Reasoning
Solve and Share

I Can Statement: I can use reasoning to solve problems.

Six clowns apply for a circus job. The specific job requires the clown to have a clown shoe size less than 15 inches and to be shorter than 5 ft 8 in. tall. How many clowns meet the size requirements for the job? Complete the graph to help you decide.

Clown	Tippy	Yippy	Dippy	Zippy	Fippy	Gippy
Shoe	15	13	13	16	12	16
Height	5'9"	5"10"	5'3"	5'2"	5'4"	5'11"

Lesson 14- 4: Independent Practice

Tanya marked a grid in her garden. She planted a rose bush at (3, 1). She moved 2 feet east and 1 foot north to plant the second rose bush. She continued planting rose bushes so that each bush is 2 feet east and 1 foot north of the previous bush.

1. How can a coordinate grid help you reason about a problem?

2. Draw and label the locations of the first four bushes on the grid. Do Tanya's bushes lie on a straight line? How do you know?