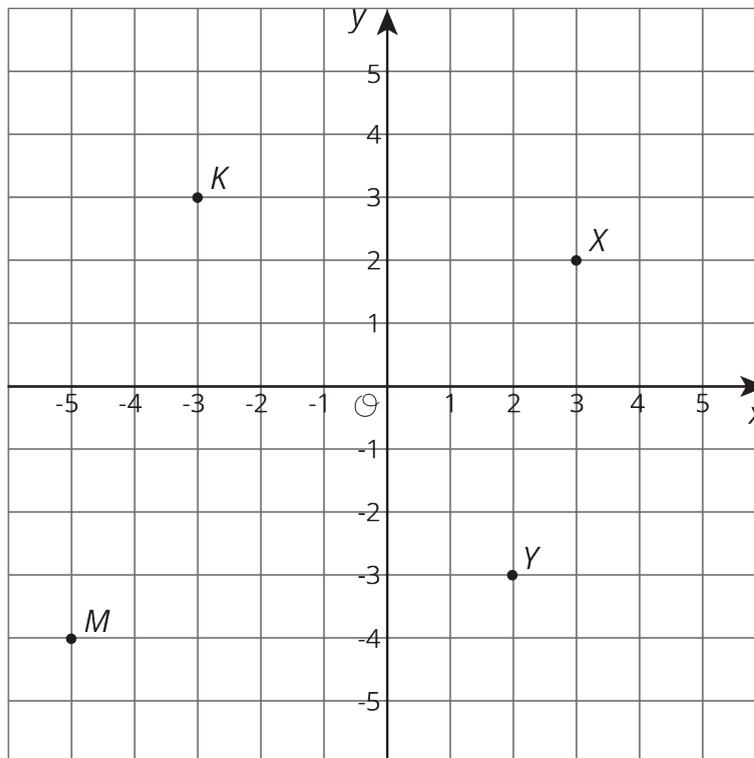


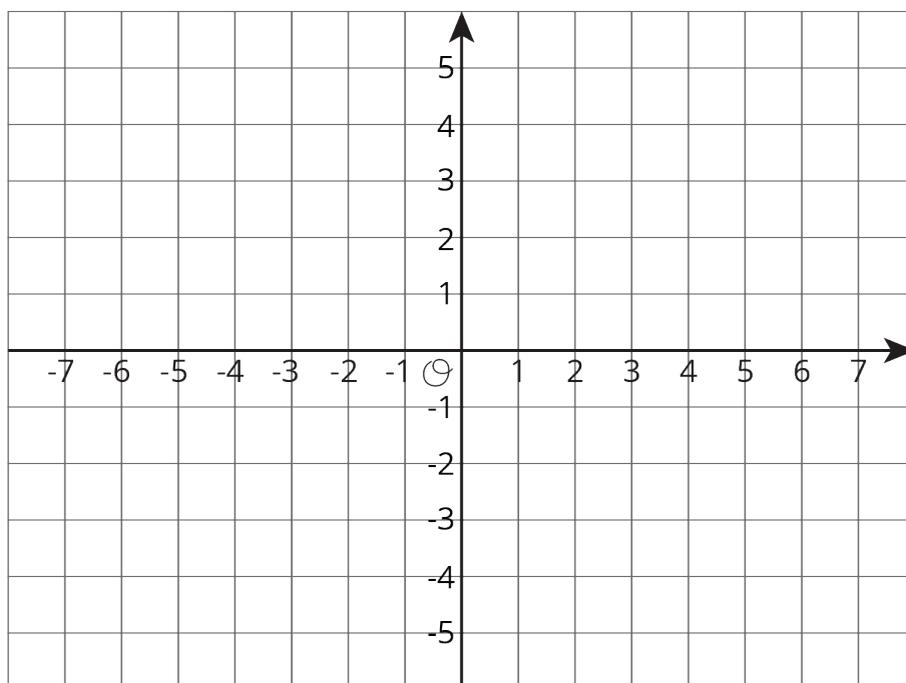
## Lesson 14 Practice Problems

1. Here are 4 points on a coordinate plane.



- Label each point with its coordinates.
  - Plot a point that is 3 units from point  $K$ . Label it  $P$ .
  - Plot a point that is 2 units from point  $M$ . Label it  $W$ .
2. Each set of points are connected to form a line segment. What is the length of each?
- $A = (3, 5)$  and  $B = (3, 6)$
  - $C = (-2, -3)$  and  $D = (-2, -6)$
  - $E = (-3, 1)$  and  $F = (-3, -1)$

3. On the coordinate plane, plot four points that are each 3 units away from point  $P = (-2, -1)$ . Write the coordinates of each point.



4. Noah's recipe for sparkling orange juice uses 4 liters of orange juice and 5 liters of soda water.
- Noah prepares large batches of sparkling orange juice for school parties. He usually knows the total number of liters,  $t$ , that he needs to prepare. Write an equation that shows how Noah can find  $s$ , the number of liters of soda water, if he knows  $t$ .
  - Sometimes the school purchases a certain number,  $j$ , of liters of orange juice and Noah needs to figure out how much sparkling orange juice he can make. Write an equation that Noah can use to find  $t$  if he knows  $j$ .

(From Unit 6, Lesson 16.)

5. For a suitcase to be checked on a flight (instead of carried by hand), it can weigh at most 50 pounds. Andre's suitcase weighs 23 kilograms. Can Andre check his suitcase? Explain or show your reasoning. (Note: 10 kilograms  $\approx$  22 pounds)

(From Unit 3, Lesson 4.)