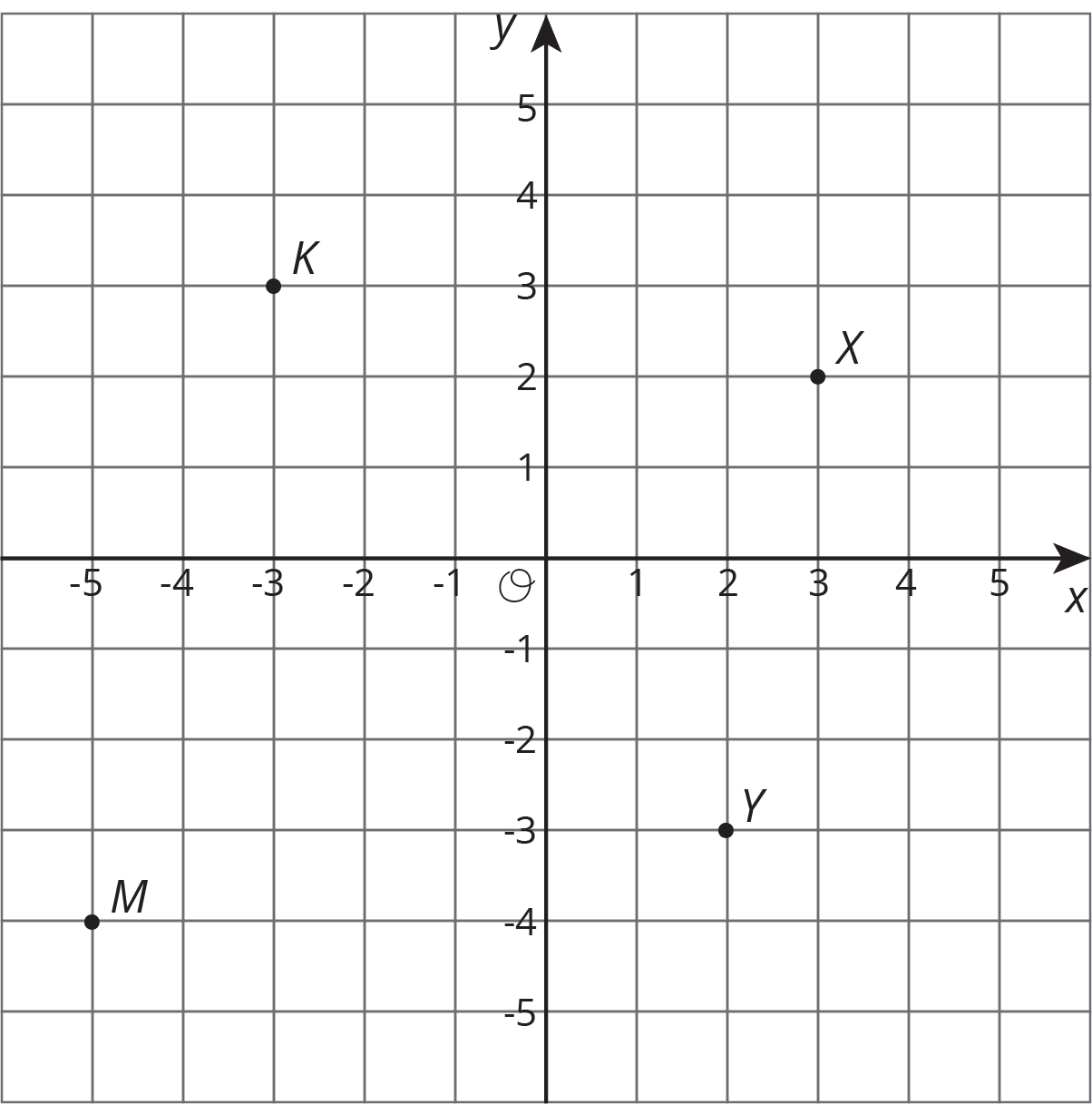
## Unit 7 Lesson 14 Cumulative Practice Problems

1. Here are 4 points on a coordinate plane.

* 
  1. Label each point with its coordinates.
  2. Plot a point that is 3 units from point . Label it .
  3. Plot a point that is 2 units from point . Label it .

1. Each set of points are connected to form a line segment. What is the length of each?
   1. A = and B =
   2. C = and D =
   3. E = and F =
2. On the coordinate plane, plot four points that are each 3 units away from point . Write the coordinates of each point.

* 

1. Noah’s recipe for sparkling orange juice uses 4 liters of orange juice and 5 liters of soda water.
   1. Noah prepares large batches of sparkling orange juice for school parties. He usually knows the total number of liters, , that he needs to prepare. Write an equation that shows how Noah can find , the number of liters of soda water, if he knows .
   2. Sometimes the school purchases a certain number, , 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 if he knows .

* (From Unit 6, Lesson 16.)

1. 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  22 pounds)

* (From Unit 3, Lesson 4.)



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