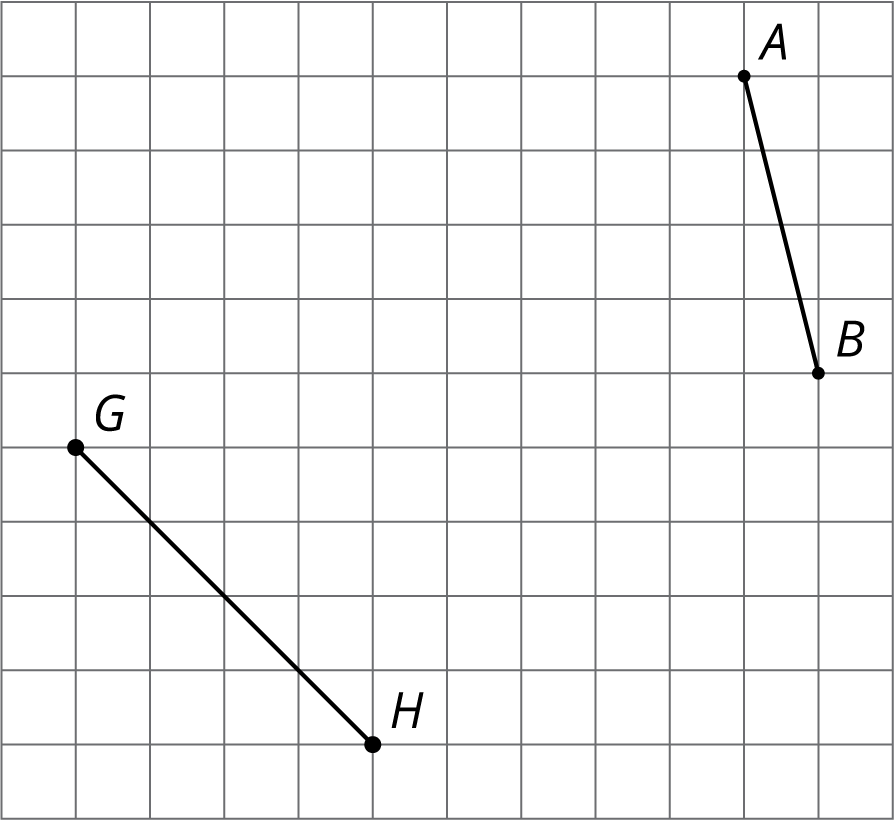
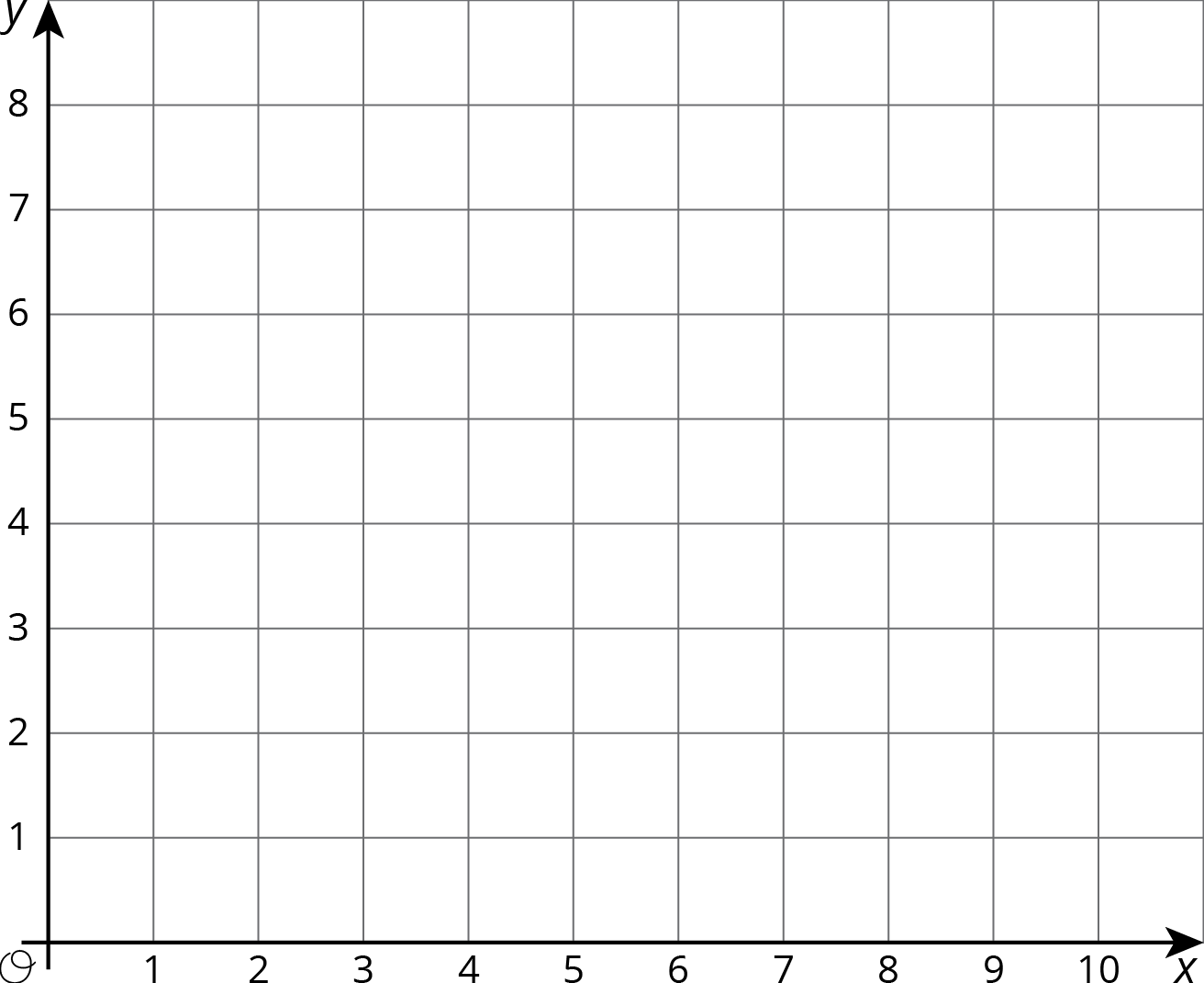
## Unit 8 Lesson 4 Cumulative Practice Problems

* 1. Find the exact length of each line segment.
  + 
  1. Estimate the length of each line segment to the nearest tenth of a unit. Explain your reasoning.

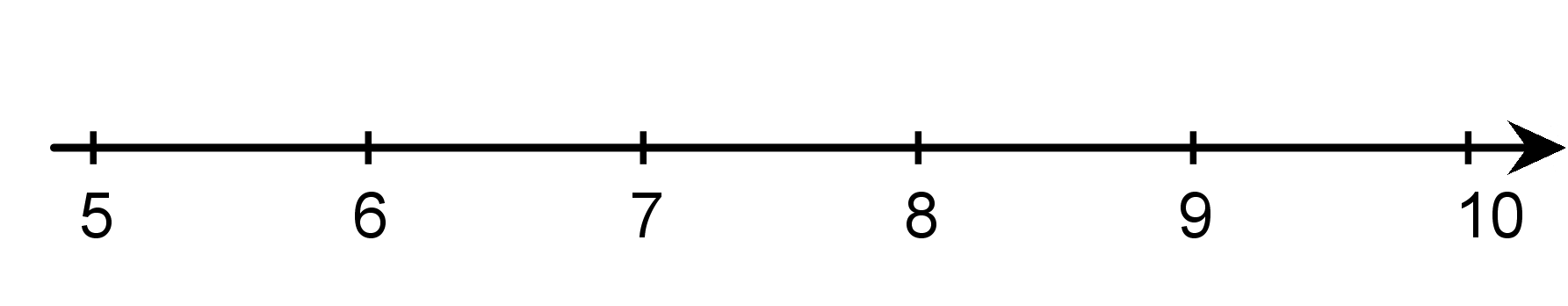
1. Plot each number on the -axis: . Consider using the grid to help.

* 

1. Use the fact that is a solution to the equation to find a decimal approximation of whose square is between 6.9 and 7.1.

* 1. Explain how you know that is a little more than 6.
  2. Explain how you know that is a little less than 10.
  3. Explain how you know that is between 5 and 6.

1. Plot each number on the number line:

* 

1. The equation has *two* solutions. This is because both , and also . So, 5 is a solution, and also -5 is a solution.

* Select **all** the equations that have a solution of -4:

1. Find all the solutions to each equation.
2. The points and lie on a line. What is the slope of the line?

* (From Unit 5, Lesson 4.)



© CC BY Open Up Resources. Adaptations CC BY IM.