

The following lesson plan is adapted from the problem below:

Big Ideas Math Course 3, Section 4.2 *Activity 2: Using Similar Triangles* page 149.

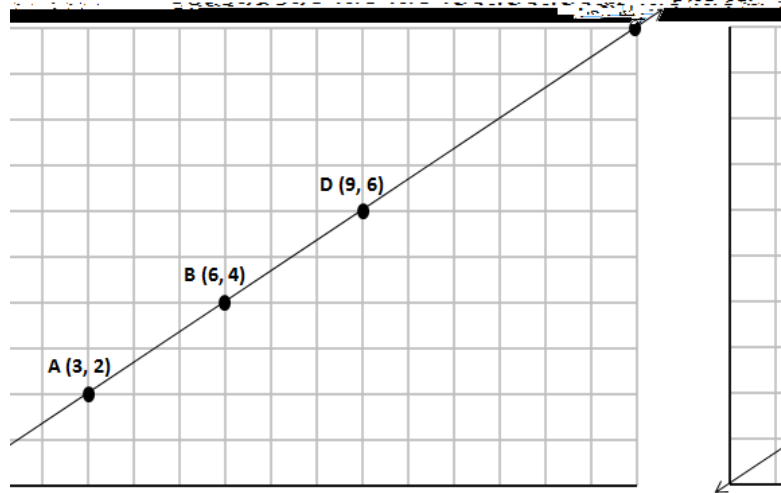
8th Grade: Exploring Slope Using Similar Triangles

Standard(s)

8.EE.6

Use similar triangles to explain why the slope m

Adapted from:
Big Ideas Math Course 3, Section 4.2



Handout: Exploring Slope Using Similar Triangles

- 1) Using the points A, B, D, and E, draw two right triangles so that their hypotenuses are on the line.
 - a. What do you *predict* the ratios of their vertical side lengths to horizontal side lengths will be?

 - b. Find the ratios of the vertical side length to horizontal side length of both triangles.

- 2) What do you notice about all of the ratios you recorded?