

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.

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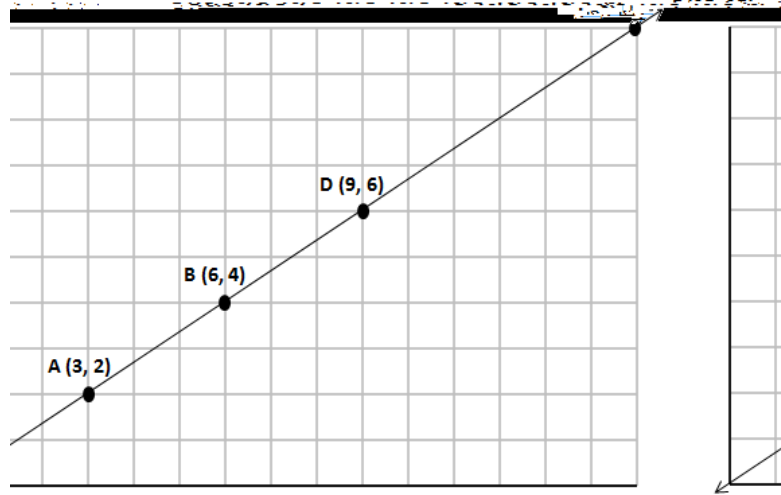
## 8<sup>th</sup> Grade: Exploring Slope Using Similar Triangles

### 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?