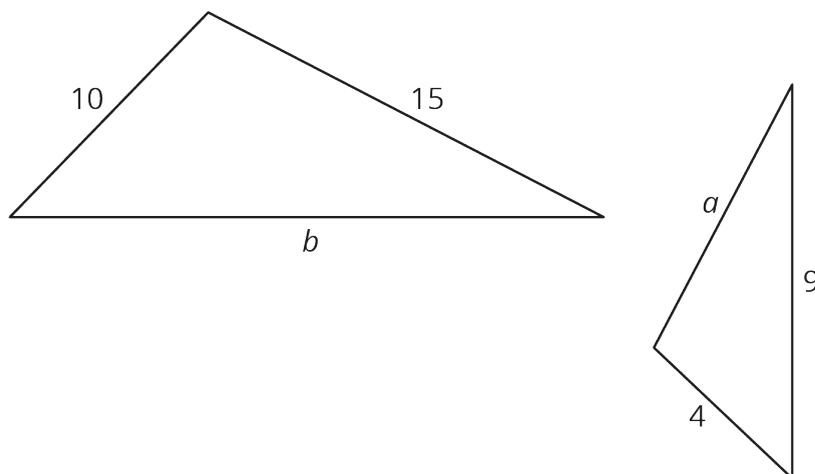
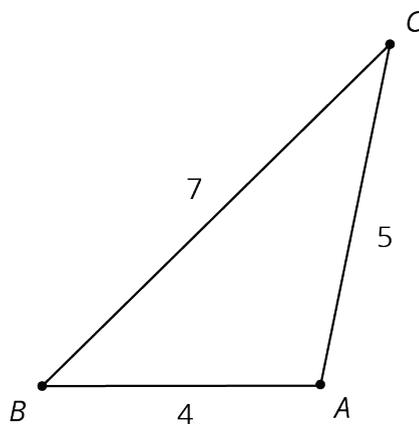


Lesson 9 Practice Problems

1. These two triangles are similar. What are a and b ? Note: the two figures are not drawn to scale.

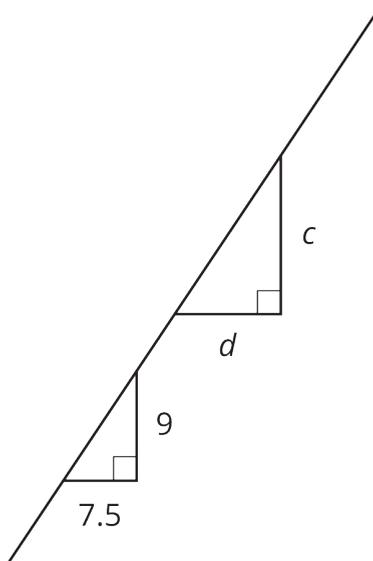


2. Here is triangle ABC . Triangle XYZ is similar to ABC with scale factor $\frac{1}{4}$.

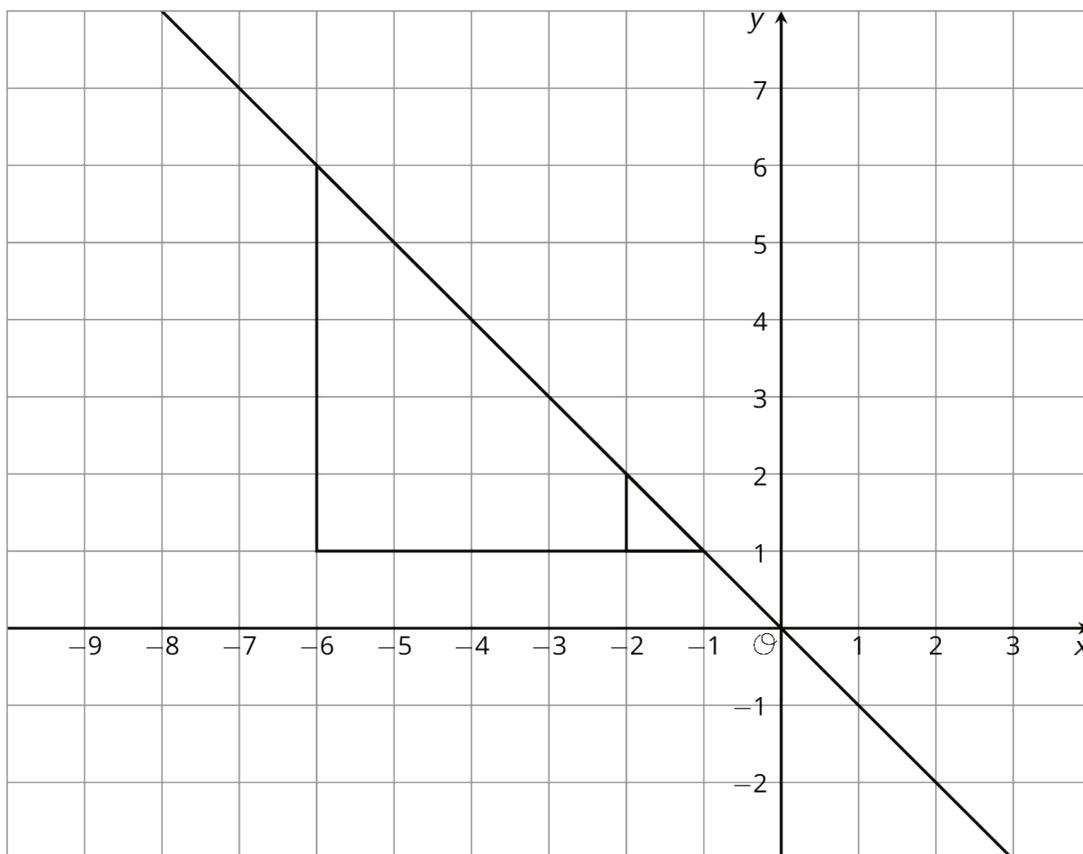


- Draw what triangle XYZ might look like.
- How do the angle measures of triangle XYZ compare to triangle ABC ? Explain how you know.
- What are the side lengths of triangle XYZ ?
- For triangle XYZ , calculate (long side) \div (medium side), and compare to triangle ABC .

3. The two triangles shown are similar. Find the value of $\frac{d}{c}$.



4. The diagram shows two nested triangles that share a vertex. Find a center and a scale factor for a dilation that would move the larger triangle to the smaller triangle.



(From Unit 2, Lesson 5.)