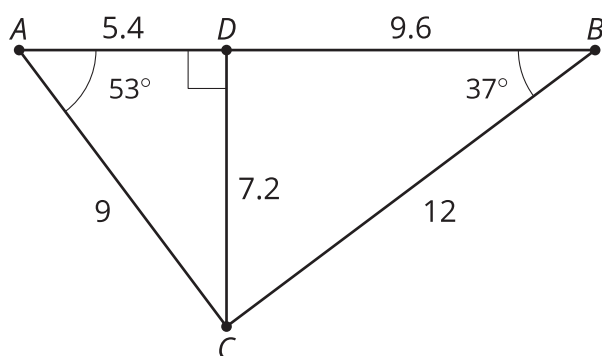


Unit 3 Lesson 13: Using the Pythagorean Theorem and Similarity

1 Similar, Right? (Warm up)

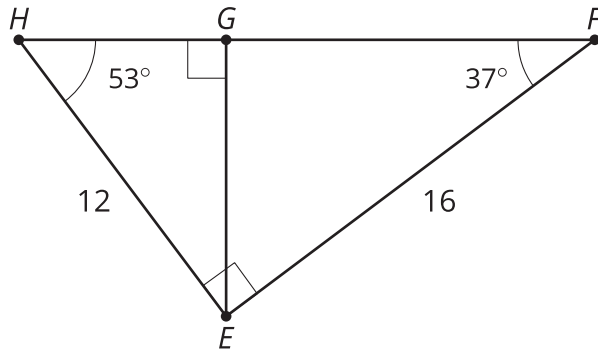
Student Task Statement

Is triangle ADC similar to triangle CDB ? Explain or show your reasoning.



2 Tangled Triangles

Student Task Statement

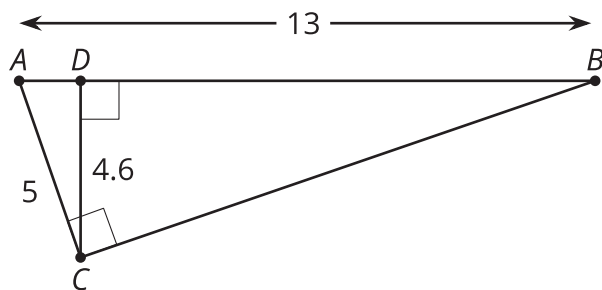


Trace the 2 smaller triangles onto separate pieces of tracing paper.

1. Turn your tracing paper and convince yourself all 3 triangles are similar.
2. Write 3 similarity statements.
3. Determine the scale factor for each pair of triangles.
4. Determine the lengths of sides HG , GF , and HF .

3 More Tangled Triangles

Student Task Statement



1. Convince yourself there are 3 similar triangles. Write a similarity statement for the 3 triangles.
2. Write as many equations about proportional side lengths as you can.
3. What do you notice about these equations?

Images for Activity Synthesis

