Explain why the triangles are similar and write a similarity statement.
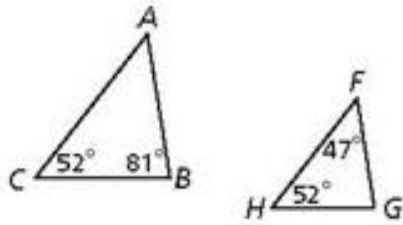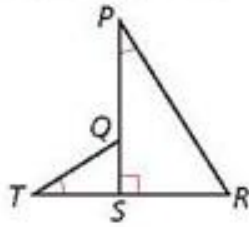
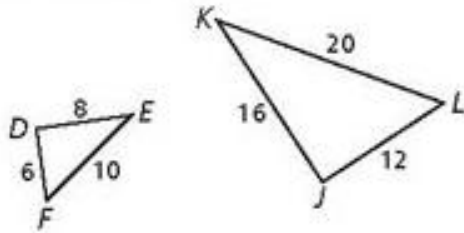**1.**

2.

Verify that the triangles are similar.

3. $\triangle DEF$ and $\triangle JKL$

4. $\triangle MNP$ and $\triangle MRQ$

Multi-Step Explain why the triangles are similar and then find each length.

5. AB

6. WY

PRACTICE AND PROBLEM SOLVING

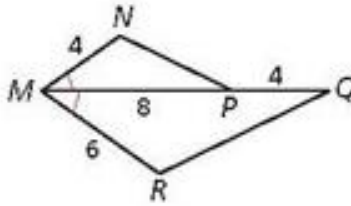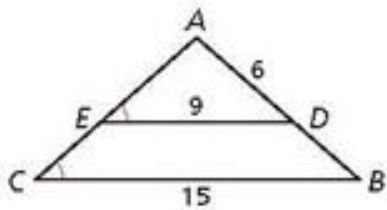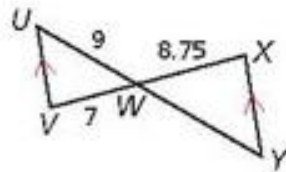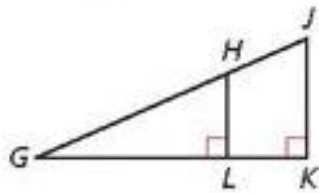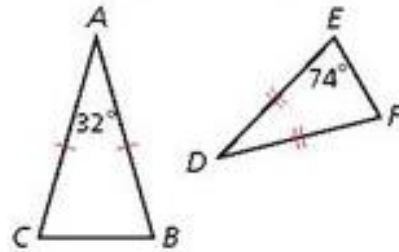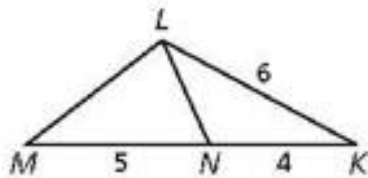Explain why the triangles are similar and write a similarity statement.

11.

12.

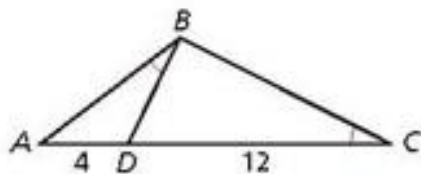Verify that the given triangles are similar.

13. △*KLM* and △*KNL*

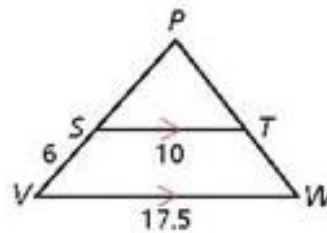**14.** △*UVW* and △*XYZ*
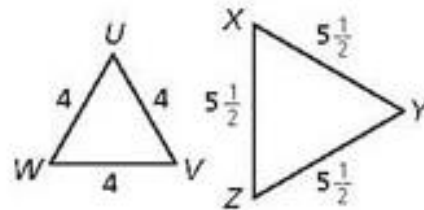
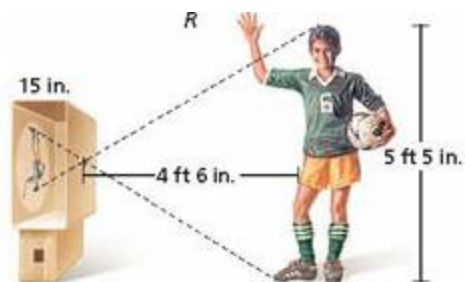**Multi-Step** Explain why the triangles are similar and then find each length.

15. *AB*

16. *PS*

19. Photography The picture shows a person taking a pinhole photograph of himself. Light entering the opening reflects his image on the wall, forming similar triangles. What is the height of the image to the nearest tenth of a foot?

26. Critical Thinking △*ABC* is not similar to △*DEF*, and △*DEF* is not similar to △*XYZ*. Could △*ABC* be similar to △*XYZ*? Why or why not? Make a sketch to support your answer.