

Section 8-5

Name: _____

Triangle Proportions

Date: _____ Period: _____

Essential Question

Are overlapping triangles similar?

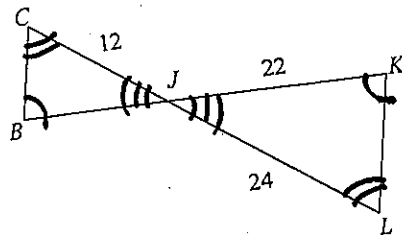
Similar

Two polygons are similar if:

1. Corresponding angles are \cong
2. Corresponding sides are proportional.

Example #1

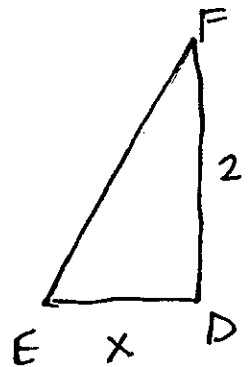
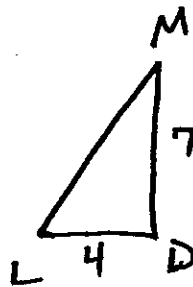
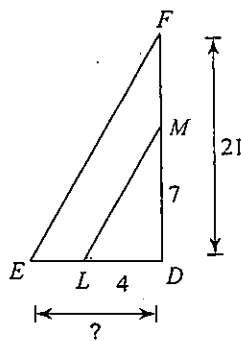
The two triangles in the diagram are similar. Find the value of x .



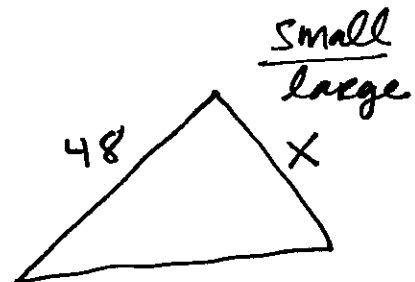
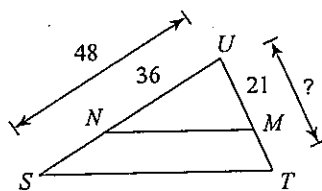
$$\triangle BCJ \sim \triangle K LJ$$

Example #2

Find the missing lengths. The triangles in each pair are similar.



small
large



small
large