

Activity 13 — Similar Figures

Objectives

This activity is designed to help students understand the following concept:

- ✓ *If two triangles are similar, their corresponding angles are congruent and the lengths of corresponding sides are proportional.*

Vocabulary

triangle	corresponding
polygon	pentagon
perimeter	

Prerequisites

Students must understand how to:

- ✓ *Construct and label a triangle.*
- ✓ *Measure and label segments.*
- ✓ *Measure and label angles.*

Answers

10. The ratios of the corresponding sides are congruent.
12. The ratios of the corresponding sides are still congruent.
14. The ratios of the corresponding sides are still congruent.
16. If two triangles are similar, the lengths of the corresponding sides are proportional.
19. They are the same.
21. The ratio of the perimeters of two similar triangles is the same as the ratio of the corresponding sides.
24. The measure of the corresponding angles are all congruent.
25. They still remain congruent.
26. Corresponding angles of similar triangles are congruent.
27. Yes, the results would remain the same.