

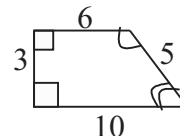
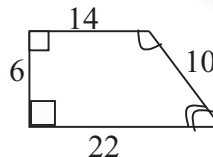
# Guided Practice 9.4

NAME \_\_\_\_\_

Module 9 Characteristics of Geometric Shapes  
Lesson 4 Similar Polygons

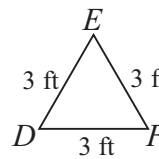
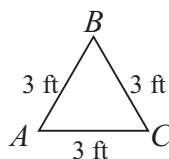
### Set 1

- 1 Are the quadrilaterals similar? Explain why or why not.



Blank area for student response.

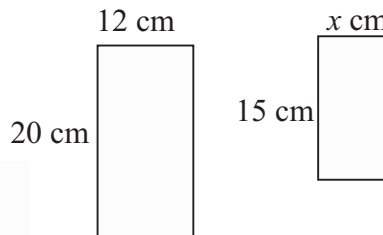
- 2 Is  $\triangle ABC$  similar to  $\triangle DEF$ ? Explain why or why not.



Blank area for student response.

### Set 2

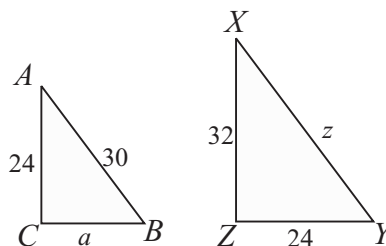
- 1 The rectangles shown are similar. Find the unknown length.



Blank area for student response.

2

$\triangle ABC$  is similar to  $\triangle XYZ$ .  
Find the unknown lengths  $z$  and  $a$ .



Set 3

1

Use the percent proportion to find the dimensions of a 25% copy of an 8 in. by 10 in. photo.



2

Bridgette enlarged a flyer to make a poster. The original size of the flyer was 10 centimeters by 14 centimeters. The poster is 80 centimeters by 112 centimeters. What is the scale factor written as a percent?



NAME \_\_\_\_\_

**Module 9**    **Characteristics of Geometric Shapes**  
**Lesson 4**    **Similar Polygons**

**Set 4**

**1**

A map has a scale of one inch to 40 miles. The distance between two cities on the map is five inches. What is the actual distance between the two cities?



**2**

Denise is making a scale drawing of a tennis court. The scale is one-fourth inch equals one foot. The actual tennis court is 36 feet wide. Find the width on the drawing.

