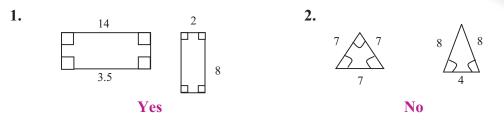
NAME

3.

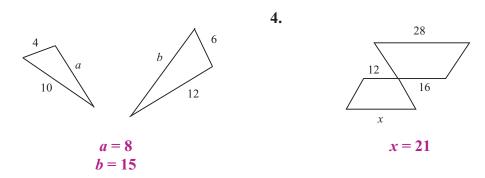
Module 9Characteristics of Geometric ShapesLesson 4Similar Polygons

Additional Practice 9.4

Determine if each pair of polygons is similar. Write yes or no.



Find the unknown lengths in each pair of similar figures.



5. A map has a scale of one inch to 150 miles. The actual distance between two cities is 525 miles. What is the distance between the two cities on the map?

The distance on the map between the two cities is 3.5 inches.

6. A poster is a 25% copy of the original painting. The original painting measures three feet by four feet. What are the dimensions of the poster?

The poster measures $\frac{3}{4}$ ft by 1 ft.

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7. A regular pentagon with a perimeter of 25 inches is enlarged by a scale factor of 250%. What is the perimeter of the enlargement?

The enlargement's perimeter is 62.5 inches.

8. Richard is making a scale drawing of a soccer field and is using a scale of 2 mm = 1 m. If the length of the actual soccer field is 104 meters, what is the length on his drawing?

The length of the drawing is 208 mm.