

✓ Checkpoint Quiz 1

Use with Lessons 8-1 through 8-2.

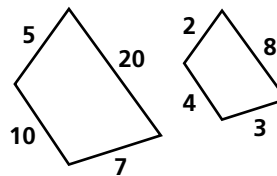
- If $\frac{a}{12} = \frac{b}{6}$, complete the following statement: $\frac{b}{a} = \frac{?}{?}$.
- The door in a room is 8 ft tall. An architect's model of the same door is 2 in. high. What is the ratio of the height of the model to the real height?

Solve each proportion by finding the value of the variable.

- $\frac{4}{8} = \frac{x}{22}$
- $\frac{x}{6} = \frac{12}{2x}$

$\triangle ABC \sim \triangle LMO$. Complete the following.

- $m\angle C = m\angle \underline{\quad}$
- $\frac{AC}{LO} = \frac{BC}{?}$
- A 3-in. by 5-in. picture is enlarged so that the longer side measures 6 ft. What is the length of the shorter side?
- Are the polygons similar? If so, give the similarity ratio of the first polygon to the second. If not, explain.
- The scale on a map is 1 in. = 120 mi. If it is $6\frac{1}{2}$ in. on a map from Cincinnati, Ohio, to Destin, Florida, what is the actual distance in miles?



✓ Checkpoint Quiz 2

Use with Lessons 8-3 through 8-5.

Determine whether the triangles are similar. If so, write the similarity postulate or theorem that proves they are similar.

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The polygons are similar. Find the values of the variables to the nearest tenth.

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Find the values of the variables.

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