

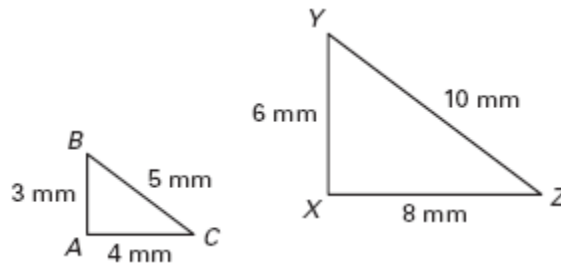
10.5B Similar and Congruent Polygons

In Exercises 1–3, use the diagram and the fact that $\triangle ABC \sim \triangle XYZ$.

1. Find $\frac{AB}{XY}$.

2. Find $\frac{BC}{YZ}$.

3. Find $\frac{AC}{XZ}$.



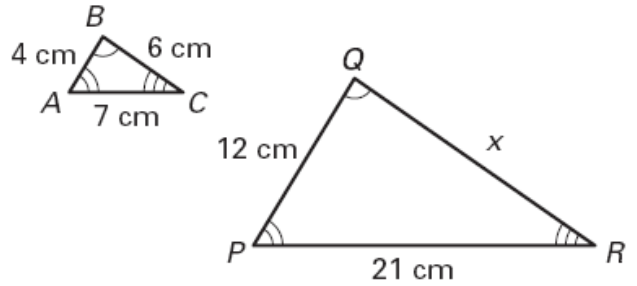
4. Which equation could be used to find the unknown length x given that the polygons are similar?

A. $\frac{4}{12} = \frac{x}{6}$

B. $\frac{6}{7} = \frac{21}{x}$

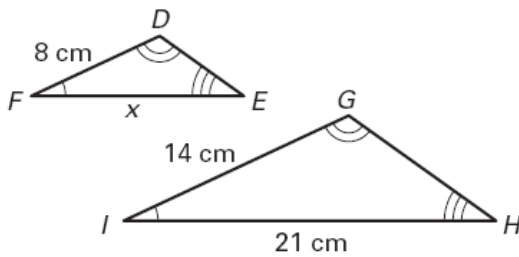
C. $\frac{4}{12} = \frac{6}{x}$

D. $\frac{4}{x} = \frac{6}{12}$

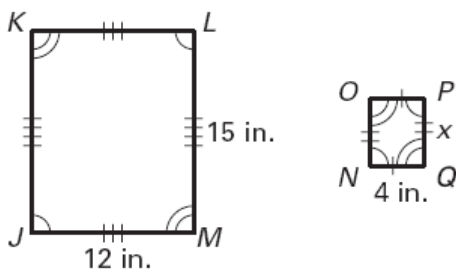


Find the unknown length x given that the polygons are similar.

5.

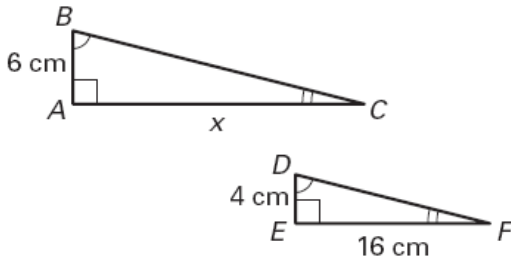


6.

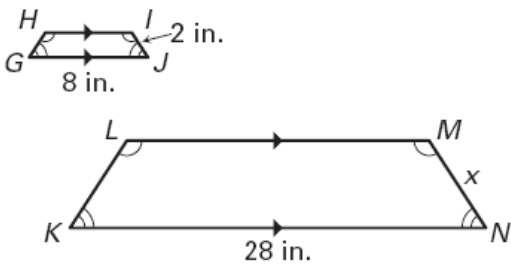


Find the unknown length x given that the polygons are similar.

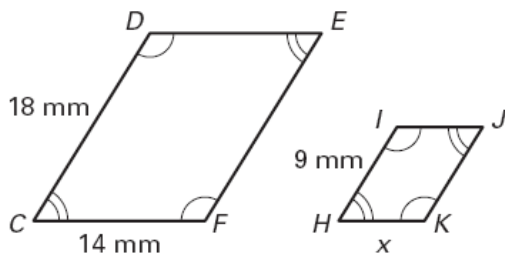
7.



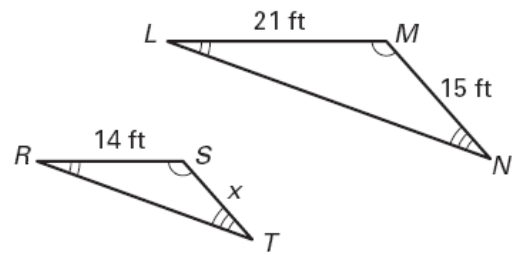
8.



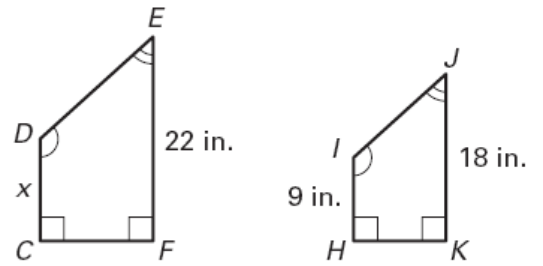
9.



10.



11.



12.

