

2.5

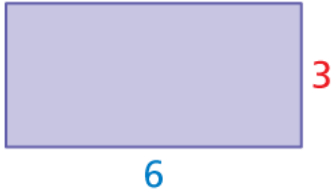
Similar Figures

(Day 2)

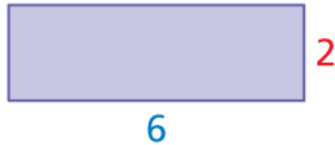
Understanding Similarity and Proportions

Which rectangle is similar to Rectangle A? Explain and show work.

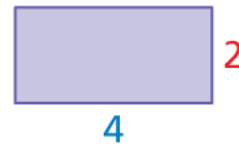
Rectangle A



Rectangle B



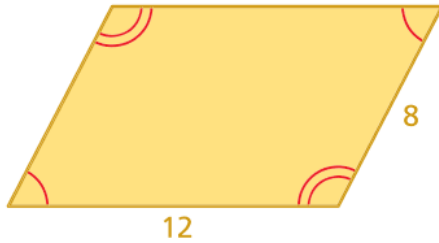
Rectangle C



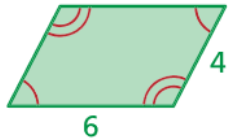
Practice

Which rectangle is similar to Parallelogram A? Explain and show work.

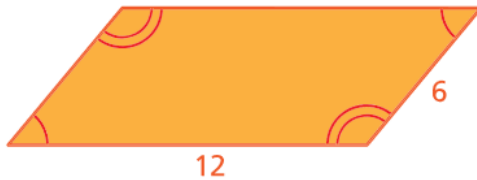
Parallelogram A



Parallelogram B



Parallelogram C



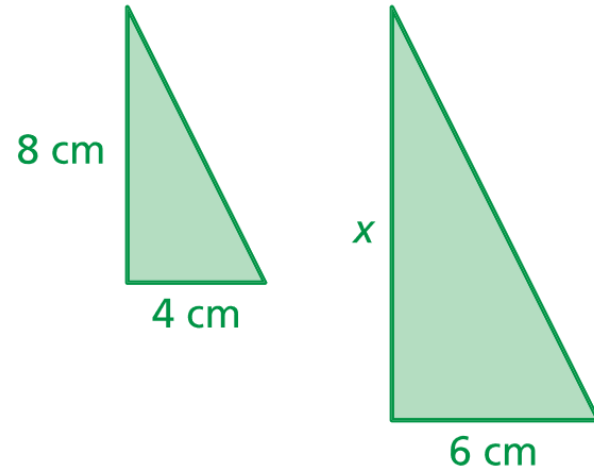
Review – Finding Missing Sides

The triangles are similar. Find x .



Review – Finding Missing Sides

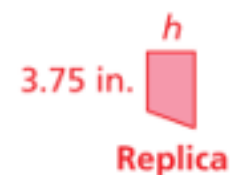
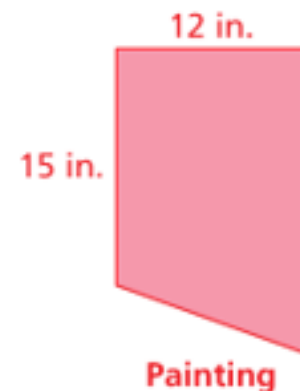
The triangles are similar. Find x .



Applying Similarity and Proportion Concepts



An artist draws a replica of a painting that is on the Berlin Wall. The painting includes a red trapezoid. The shorter base of the similar trapezoid in the replica is 3.75 inches. What is the height h of the trapezoid in the replica?



Applying Similarity and Proportion Concepts

Work with a partner. You are trying to reduce the photograph to the indicated size for a nature magazine. Can you reduce the photograph to the indicated size without distorting or cropping? Explain your reasoning.

a.

5 in.



6 in.



4 in.



5 in.

Applying Similarity and Proportion Concepts

Work with a partner. You are trying to reduce the photograph to the indicated size for a nature magazine. Can you reduce the photograph to the indicated size without distorting or cropping? Explain your reasoning.

b.

6 in.



8 in.



3 in.



4 in.