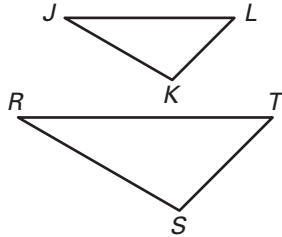


Practice B

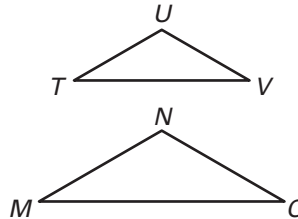
For use with pages 473–479

List all pairs of congruent angles and write the statement of proportionality for the figures.

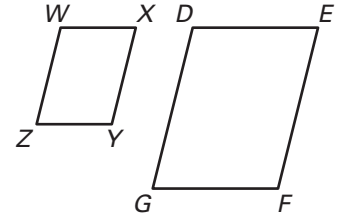
1. $\triangle JKL \sim \triangle RST$



2. $\triangle TUV \sim \triangle MNO$

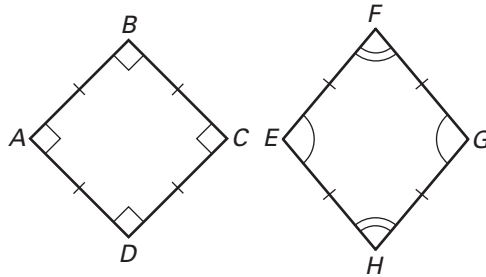


3. $\square WXYZ \sim \square DEFG$

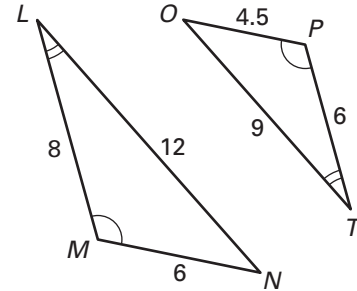


Decide whether the polygons are similar. If so, write a similarity statement.

4.

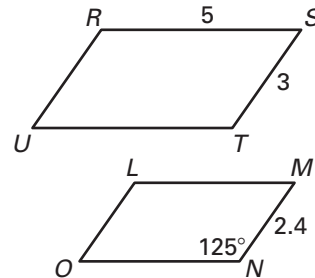


5.



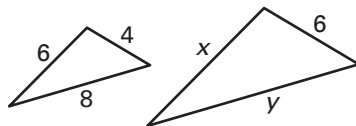
In the diagram at the right, $\square RSTU \sim \square LMNO$.

6. Find the scale factor of $\square RSTU$ to $\square LMNO$.
7. Find the scale factor of $\square LMNO$ to $\square RSTU$.
8. Find the length of $\overline{NO}$.
9. Find the measure of $\angle U$.
10. Find the perimeter of $\square LMNO$.
11. Find the ratio of the perimeter of $\square RSTU$ to the perimeter of $\square LMNO$.

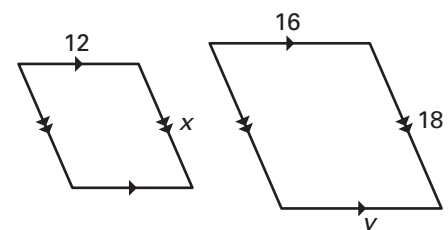


The two polygons are similar. Find the values of x and y .

12.



13.

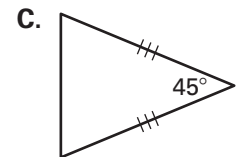
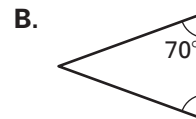
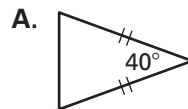
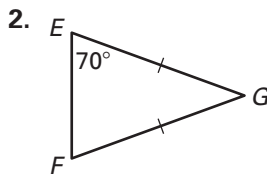
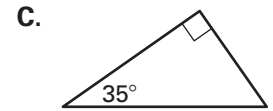
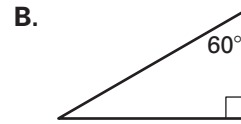
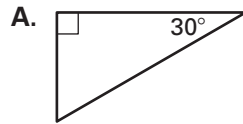
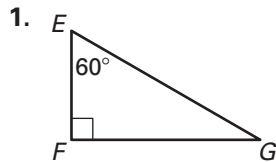


14. The ratio of one side of $\triangle ABC$ to the corresponding side of similar $\triangle DEF$ is 3:5. The perimeter of $\triangle DEF$ is 48 inches. What is the perimeter of $\triangle ABC$?

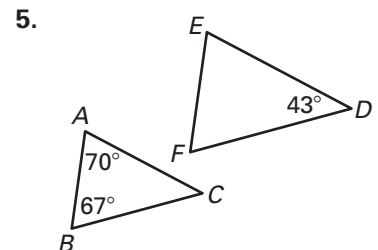
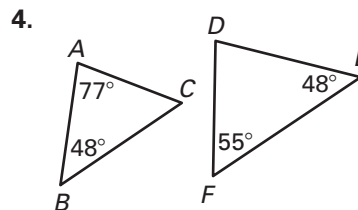
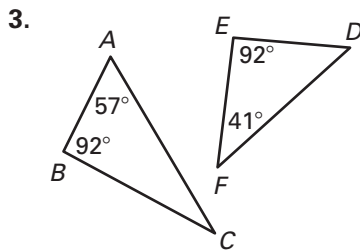
Practice A

For use with pages 480–487

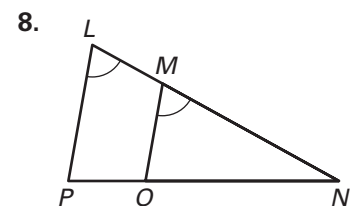
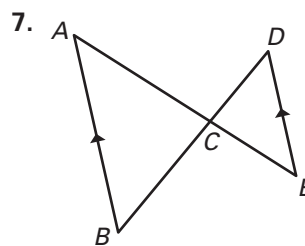
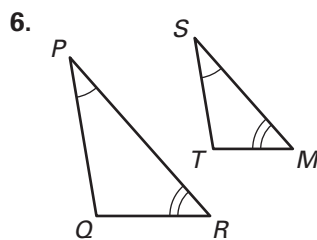
Which triangles are similar to $\triangle EFG$? Explain.



Decide whether $\triangle ABC$ and $\triangle DEF$ are similar, not similar, or cannot be determined for the given information.



The triangles shown are similar. List all the pairs of congruent angles and write the statement of proportionality.



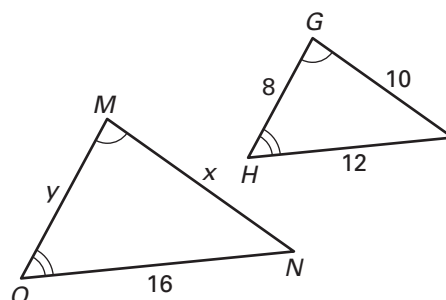
Use the diagram to complete the following.

9. $\triangle MON \sim \underline{\hspace{1cm}}?$

10. $\frac{MN}{?} = \frac{ON}{?} = \frac{MO}{?}$

11. $\frac{16}{?} = \frac{?}{10}$

12. $\frac{?}{16} = \frac{8}{?}$



13. Solve for x and y .