Name _____   **Date** _____
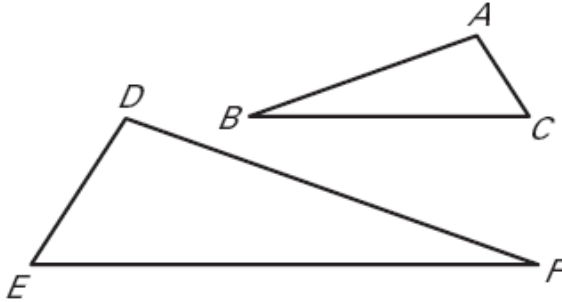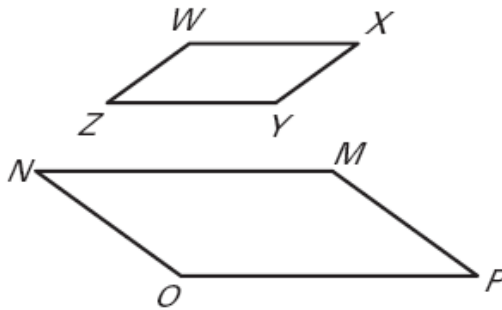
Practice B
For use with pages 371–379

List all pairs of congruent angles for the figures. Then write the ratios of the corresponding sides in a statement of proportionality.
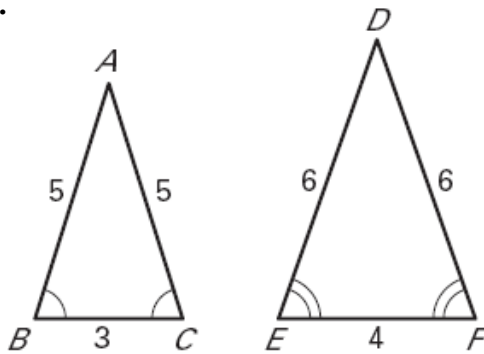
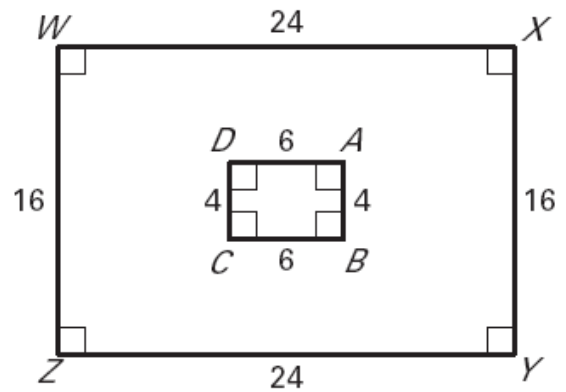   **1.** $\triangle ABC \sim \triangle DFE$

   2. $WXYZ \sim MNOP$

Determine whether the polygons are similar. If they are, write a similarity statement and find the scale factor.
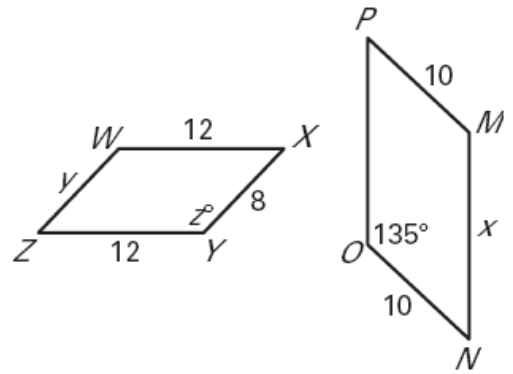
3.

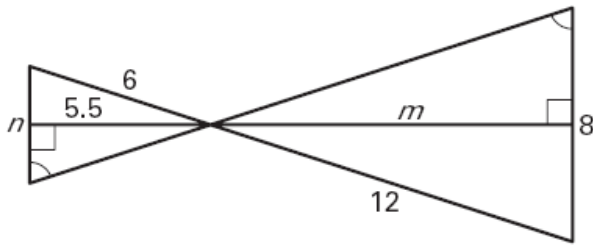

4.

In the diagram, *WXYZ ~ MNOP*.

5. Find the scale factor of *WXYZ* to *MNOP*.

6. Find the values of *x*, *y*, and *z*.

7. Find the perimeter of *WXYZ*.

8. Find the perimeter of *MNOP*.

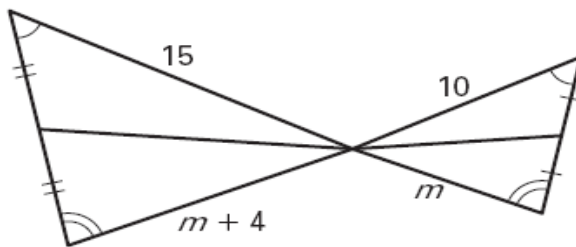9. Find the ratio of the perimeter of *MNOP* to the perimeter of *WXYZ*.

The two triangles are similar. Find the values of the variables.

10.

11.

In the diagram, *ΔXYZ ~ ΔMNP*.

12. Find the scale factor of *ΔXYZ* to *ΔMNP*.

13. Find the unknown side lengths of both triangles.

14. Find the length of the altitude shown in *ΔXYZ*.

15. Find and compare the areas of both triangles.