

Practice A

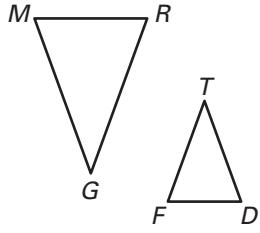
For use with pages 473–479

You are given the length and width of three rectangles. Which two are similar?

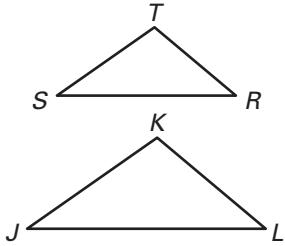
- | | | |
|--|----------------------------|---------------------------|
| 1. a. 5 in. \times 7 in. | b. 8.5 in. \times 11 in. | c. 10 in. \times 14 in. |
| 2. a. 4 ft \times 5 ft | b. 20 ft \times 25 ft | c. 8 cm \times 1 m |
| 3. a. 3 cm \times 15 cm | b. 3 ft \times 15 in. | c. 6 cm \times 30 cm |
| 4. a. $\frac{3}{2}$ cm \times $\frac{7}{2}$ cm | b. 21 in. \times 49 in. | c. 1 ft \times 3 ft |

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

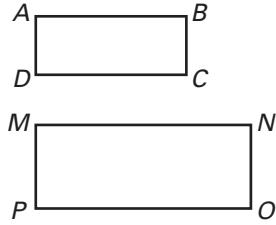
5. $\triangle GRM \sim \triangle TFD$



6. $\triangle STR \sim \triangle JKL$

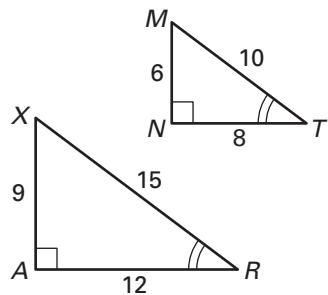


7. $\square ABCD \sim \square MNOP$

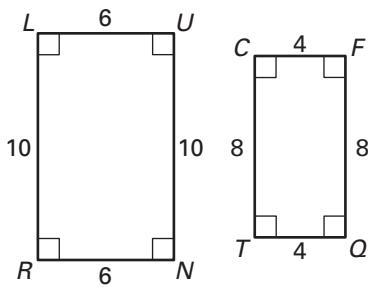


Decide whether the polygons are similar. If so, write a similarity statement.

8.



9.



In the diagram at the right, polygon $ABCD \sim$ polygon $GHIJ$.

10. Find the scale factor of polygon $ABCD$ to polygon $GHIJ$.
11. Find the scale factor of polygon $GHIJ$ to polygon $ABCD$.
12. Find the values of x and y .
13. Find the perimeter of each polygon.
14. Find the ratio of the perimeter of $ABCD$ to the perimeter of $GHIJ$.

