

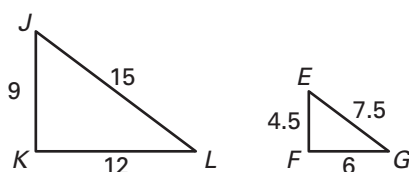
# Practice B

For use with pages 364–371

Supply the missing word(s) to complete the statement.

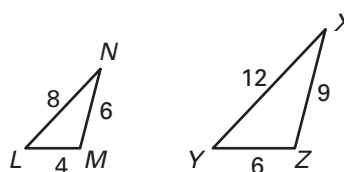
- Two polygons are similar polygons if corresponding angles are ? and corresponding side lengths are ?.
- If two polygons are similar, then the ratio of the lengths of two corresponding sides is called the ?.
- If two polygons are similar, then the ratio of their ? is equal to the ratio of their corresponding side lengths.

In Exercises 4–6,  $\triangle JKL \sim \triangle EFG$ .



- List all pairs of congruent angles.
- Write the ratios of the corresponding sides in a statement of proportionality.
- Find the scale factor of  $\triangle JKL$  to  $\triangle EFG$ .

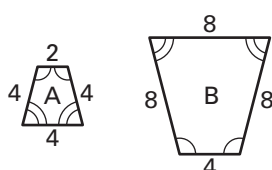
In Exercises 7–9,  $\triangle NLM \sim \triangle XYZ$ .



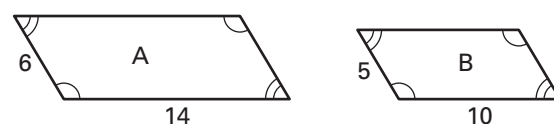
- List all pairs of congruent angles.
- Write the ratios of the corresponding sides in a statement of proportionality.
- Find the scale factor of  $\triangle NLM$  to  $\triangle XYZ$ .

Determine whether the polygons are similar. If they are similar, find the scale factor of figure A to figure B.

10.

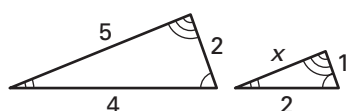


11.

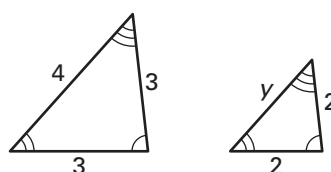


The two polygons are similar. Find the value of the variable.

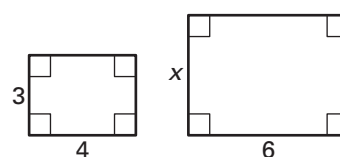
12.



13.



14.



A flower garden is enclosed by a brick border, as shown at the right. The perimeters of the garden and the brick border are similar rectangles.

- Find the ratio of the length of the border to the length of the garden.
- Find the width of the flower garden.
- Find the perimeter of the flower garden.

