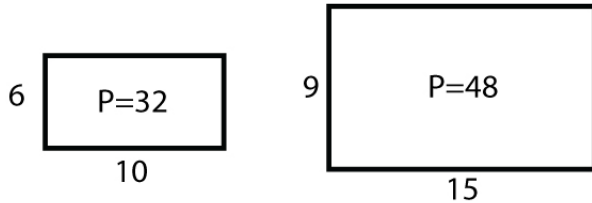


Name : _____

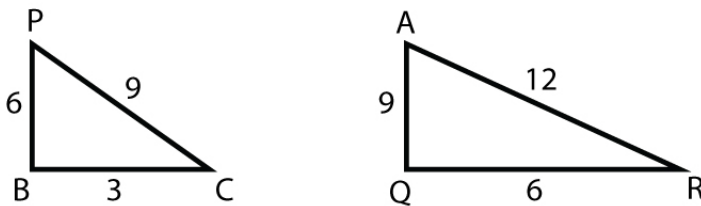
Similar Polygons: Ratio of Perimeters and Area Worksheet

1 The areas of two similar polygons are in the ratio of 64 : 81. Find the ratio of the corresponding sides.

2 Find the ratio of the perimeters of the similar rectangles.

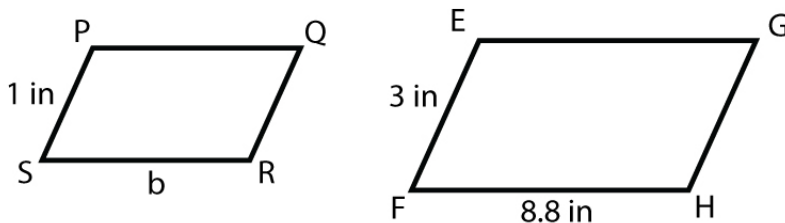


3 Find the areas of the given triangles and find the scale factor between them.

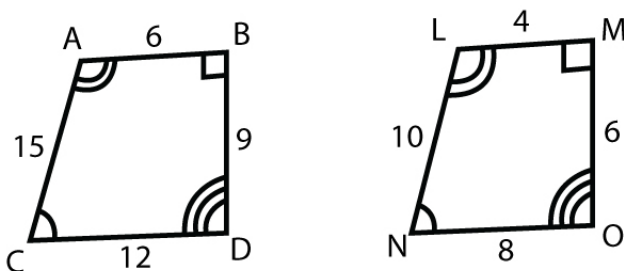


4 Two triangles are similar. The ratio of the corresponding sides of these triangles is 2 : 3. If the altitude of the smaller triangle is 4.5 feet, find the corresponding altitude of the larger triangle.

5 Two parallelograms shown below are similar. Find the perimeter of the parallelogram PQRS.



6 Decide whether the figures given below are similar. If similar, write a similarity statement.



Name : _____

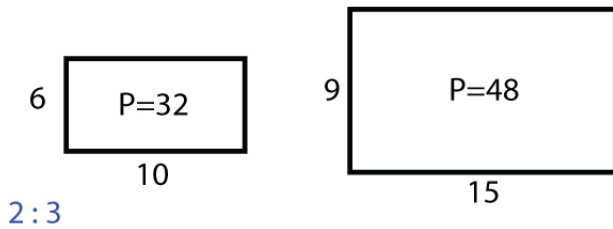
Similar Polygons: Ratio of Perimeters and Area Worksheet

Answers

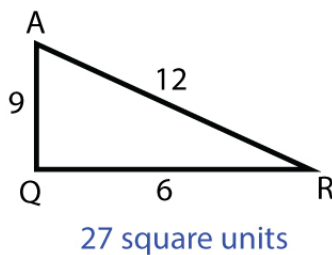
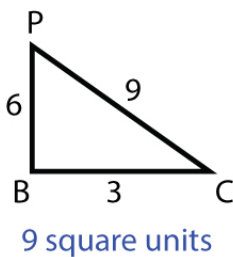
- 1 The areas of two similar polygons are in the ratio of 64 : 81. Find the ratio of the corresponding sides.

8 : 9

- 2 Find the ratio of the perimeters of the similar rectangles.



- 3 Find the areas of the given triangles and find the scale factor between them.

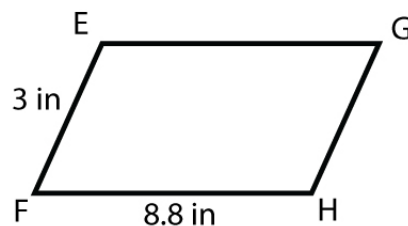
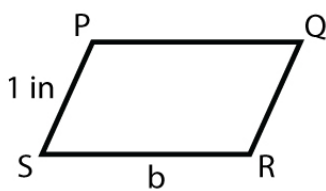


Scale factor = $\frac{3}{2}$

- 4 Two triangles are similar. The ratio of the corresponding sides of these triangles is 2 : 3. If the altitude of the smaller triangle is 4.5 feet, find the corresponding altitude of the larger triangle.

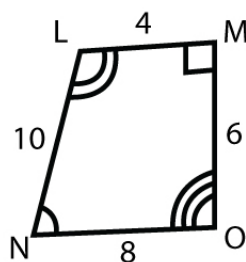
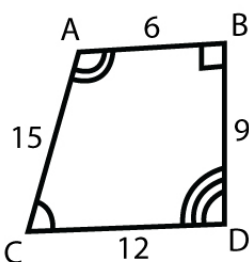
6.75 feet

- 5 Two parallelograms shown below are similar. Find the perimeter of the parallelogram PQRS.



7.86 in

- 6 Decide whether the figures given below are similar. If similar, write a similarity statement.



Yes, ABDC ~ LMON