

Name : \_\_\_\_\_

## Perimeter and Area

L1S3

- 1) Two regular nonagons have a scale factor of  $5.1 : 9.2$ . What is the area of the smaller nonagon, if the area of the larger nonagon is 423.2 square feet?

\_\_\_\_\_

- 2) V and W are similar isosceles triangles. The scale factor of V to W is  $6 : 3.7$ . If the perimeter of V is 90 inches, determine the perimeter of W.

\_\_\_\_\_

- 3) Hexagons S and T are similar. The perimeter of hexagon S is 21 yards. Find the perimeter of hexagon T if the scale factor of S to T is  $3 : 5$ .

\_\_\_\_\_

- 4) The scale factor of square E to square F is  $3 : 5$ . The area of square F is 100 square feet. Find the area of square E.

\_\_\_\_\_

- 5) E and F are regular figures. The scale factor of E to F is  $1 : 8$ . If the perimeter of F is 32 yards, determine the perimeter of E.

\_\_\_\_\_

**PREVIEW**

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

Name : \_\_\_\_\_

## Answer key

### Perimeter and Area

L1S3

- 1) Two regular nonagons have a scale factor of 5.1 : 9.2. What is the area of the smaller nonagon, if the area of the larger nonagon is 423.2 square feet?

\_\_\_\_\_

**130.05 square feet**

- 2) V and W are similar isosceles triangles. The scale factor of V to W is 6 : 3.7. If the perimeter of V is 90 inches, determine the perimeter of W.

- 3) Hexagons S and T are similar. The perimeter of hexagon S is 21 yards. Find the perimeter of hexagon T if the scale factor of S to T is 1 : 2.5.

- 4) The scale factor of square E to square F is 1 : 2.3. Find the area of the smaller square, if the area of the larger square is 5.67 square feet.

- 5) E and F are regular figures. The scale factor of E to F is 1 : 8. If the perimeter of F is 32 yards, determine the perimeter of E.

\_\_\_\_\_

**4 yards**

**PREVIEW**

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

\_\_\_\_\_

**5.67 square feet**