

Name : _____

Perimeter and Area

L2S3

- 1) The perimeter and the area of hexagon U are 4 feet and 2 square feet respectively. The perimeter of hexagon V is 32 feet. If the given two hexagons are similar, find the area of hexagon V.

- 2) The perimeters of similar isosceles triangles D and E are 64 inches and 72 inches respectively. Find the area of E, if the area of D is 128 square inches.

- 3) X and Y are regular polygons with 10 sides and 12 sides respectively. Determine the ratio of their areas.

_____ 150 square yards
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

- 4) The areas of two similar rectangles are 16 square feet and 25 square feet. Find the ratio of their perimeters.

_____ feet. Find the perimeter of the larger rectangle.

- 5) The perimeters of two similar squares are 12 inches and 18 inches. Find the ratio of their areas.

_____ If the sum of their areas is 100 square inches, find the side length of the larger square.

- 6) The sum of perimeters of two equilateral triangles is 35 inches. Determine the perimeter of each triangle, if the areas of triangles are 45 square inches and 80 square inches.

Name : _____

Answer key

Perimeter and Area

L2S3

- 1) The perimeter and the area of hexagon U are 4 feet and 2 square feet respectively. The perimeter of hexagon V is 32 feet. If the given two hexagons are similar, find the area of hexagon V.

128 square feet

- 2) The perimeters of similar isosceles triangles D and E are 64 inches and 72 inches respectively. Find the area of E, if the area of D is 128 square inches.

- 3) X and Y are regular polygons with 6 sides respectively. Determine the ratio of their areas.

150 square yards
yards.

- 4) The areas of two similar rectangles are 16 square feet and 25 square feet. Find the ratio of their perimeters.

feet. Find the perimeter of the larger rectangle.

- 5) The perimeters of two similar squares are 12 inches and 18 inches. If the sum of their areas is 216.4 square yards, find the area of the larger square.

If the sum of their areas is 216.4 square yards, find the area of the larger square.

24.2 square yards, 192.2 square yards

- 6) The sum of perimeters of two equilateral triangles is 35 inches. Determine the perimeter of each triangle, if the areas of triangles are 45 square inches and 80 square inches.

15 inches, 20 inches

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