

Name : _____

Perimeter and Area

L2S1

- 1) The perimeters of regular figures Y and Z are 7 yards and 14 yards respectively. If the area of figure Z is 40 square yards, find the area of figure Y.

- 2) Parallelograms C and D are similar. The areas of C and D are 75.6 square feet and 52.5 square feet respectively. What will be the perimeter of D, if the perimeter of C is 36 feet?

- 3) The perimeters of two similar triangles are 10 cm and 20 cm respectively. Find the ratio of their areas and the area of the larger triangle, if the area of the smaller triangle is 100 cm².

- 4) Two similar squares G and H have perimeters of 40 cm and 144 cm respectively. Determine the ratio of their areas and the area of the larger square.

- 5) The perimeters of two similar squares are 10 cm and 20 cm respectively. Find the ratio of their areas and the area of each square, if the sum of their areas is 100 cm².

- 6) The areas of two similar kites are 16 square feet and 64 square feet. If the sum of their perimeters is 5.4 feet, find the perimeter of each kite.

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Name : _____

Answer key

Perimeter and Area

L2S1

- 1) The perimeters of regular figures Y and Z are 7 yards and 14 yards respectively. If the area of figure Z is 40 square yards, find the area of figure Y.

10 square yards

- 2) Parallelograms C and D are similar. The areas of C and D are 75.6 square feet and 52.5 square feet respectively. What will be the perimeter of D, if the perimeter of C is 36 feet?

- 3) The perimeters of two similar triangles are 18 inches and 36 inches respectively. Find the ratio of their areas and the area of the larger triangle, if the area of the smaller triangle is 9 square inches.

- 4) Two similar squares G and H have perimeters of 24 inches and 48 inches respectively. Determine the ratio of their areas and the area of the larger square, if the area of the smaller square is 144 square inches.

- 5) The perimeters of two similar rectangles are 18 inches and 36 inches respectively. Find the ratio of their areas and the area of each rectangle, if the sum of their areas is 92.16 square inches.

92.16 square inches, 620.01 square inches

- 6) The areas of two similar kites are 16 square feet and 64 square feet. If the sum of their perimeters is 5.4 feet, find the perimeter of each kite.

1.8 feet, 3.6 feet

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