

Name : _____

Perimeter and Area

L2S2

- 1) M and N are similar rhombuses. The areas of M and N are 75 square inches and 243 square inches respectively. What will be the perimeter of M, if the perimeter of N is 54 inches?

- 2) The perimeters of similar trapezoids V and W are 46.8 yards and 63 yards respectively. If the area of trapezoid W is 122.5 square yards, find the area of trapezoid V.

- 3) Q and R are similar figures. The perimeter of Q is 36 feet and the area of Q is 144 square feet. The perimeter of R is 48 feet and the area of R is 288 square feet. Find the ratio of the perimeters of Q and R.

- 4) Two figures are similar. The perimeter of the smaller figure is 216 units and the area is 1296 square units. The perimeter of the larger figure is 360 units. Find the area of the larger figure.

- 5) The areas of two similar figures are 16 square feet and 144 square feet. The perimeter of the smaller figure is 12 feet. What is the perimeter of the larger figure?

- 6) The perimeters of two similar quadrilaterals are 15 yards and 19.5 yards. Find the area of each quadrilateral, if the sum of their areas is 10.76 square yards.

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Name : _____

Answer key

Perimeter and Area

L2S2

- 1) M and N are similar rhombuses. The areas of M and N are 75 square inches and 243 square inches respectively. What will be the perimeter of M, if the perimeter of N is 54 inches?

30 inches

- 2) The perimeters of similar trapezoids V and W are 46.8 yards and 63 yards respectively. If the area of trapezoid W is 122.5 square yards, find the area of trapezoid V.

- 3) Q and R are similar figures. The perimeter of Q is 36 feet and the area of Q is 81 square feet. The perimeter of R is 48 feet and the area of R is 144 square feet. Find the ratio of the perimeters of Q and R.

- 4) Two figures are similar. The perimeter of the smaller figure is 216 square units and the area of the smaller figure is 144 square units. The perimeter of the larger figure is 360 square units. If the area of the larger figure is A square units, find the value of A .

- 5) The areas of two similar figures are 16 square feet and 144 square feet. The perimeter of the smaller figure is 4 feet. What is the perimeter of the larger figure?

4.6 feet, 13.8 feet

- 6) The perimeters of two similar quadrilaterals are 15 yards and 19.5 yards. Find the area of each quadrilateral, if the sum of their areas is 10.76 square yards.

4 square yards, 6.76 square yards

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