

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.

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- 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.

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

\_\_\_\_\_ 150 square yards  
yards.

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- 4) The areas of two similar rectangles are 16 square feet and 25 square feet. The perimeter of the larger rectangle is 30 feet. Find the perimeter of the smaller rectangle.

\_\_\_\_\_ feet. Find the perimeter  
feet.

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

\_\_\_\_\_ If the sum of their areas is

\_\_\_\_\_

- 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.

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