

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

## Perimeter and Area

L1S1

- 1) A and B are regular octagons. The scale factor of A to B is 2.5 : 4. If the perimeter of octagon B is 64 inches, find the perimeter of octagon A.

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- 2) U and V are similar figures. The scale factor of V to U is 5 : 1. What would be the area of figure U, if the area of figure V is 100 square inches?

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- 3) Two trapezoids are similar. The perimeter of the larger trapezoid is 4 feet, and the perimeter of the smaller trapezoid is 1 foot. What is the ratio of the area of the larger trapezoid to the area of the smaller trapezoid?

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- 4) M and N are equilateral triangles. The area of triangle N is 320 square inches. What is the area of triangle M if the side length of triangle M is 3 times the side length of triangle N?

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- 5) R and S are similar rectangles. The scale factor of R to S is 9 : 2. If the perimeter of rectangle S is 15.3 feet, find the perimeter of rectangle R.

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## Answer key

### Perimeter and Area

L1S1

- 1) A and B are regular octagons. The scale factor of A to B is 2.5 : 4. If the perimeter of octagon B is 64 inches, find the perimeter of octagon A.

\_\_\_\_\_

**40 inches**

- 2) U and V are similar figures. The scale factor of V to U is 5 : 1. What would be the area of figure U, if the area of figure V is 100 square inches?

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- 3) Two trapezoids are similar. The area of the larger trapezoid is 4 feet, find the area of the smaller trapezoid if the perimeter of the smaller trapezoid is 10 feet.

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- 4) M and N are equilateral triangles. The area of triangle N is 320 square inches. Find the area of triangle M if the side length of triangle M is 1/5 the side length of triangle N.

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**84.05 square inches**

- 5) R and S are similar rectangles. The scale factor of R to S is 9 : 2. If the perimeter of rectangle S is 15.3 feet, find the perimeter of rectangle R.

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**68.85 feet**