

Name : _____

Ratio of Perimeters and Areas

Sheet 1

- 1) Find the ratio of perimeters and the ratio of areas, if the scale factor of two similar triangles is $2.3 : 4.5$.

- 2) The scale factor of two regular octagons is $5 : 2$. Find the ratio of their perimeters and the ratio of their areas.

- 3) If the scale factor of two similar geometric figures is $0.7 : 6$, what would be the ratio of their perimeters and the ratio of their areas?

- 4) Determine the ratio of perimeters and the ratio of areas, if the scale factor of square M to square N is $9 : 7$.

- 5) What are the ratio of perimeters and the ratio of areas, if the scale factor of two similar parallelograms is $8.1 : 1$?

- 6) Gina decorates the stairway with a couple of art paintings of similar shape. If the scale factor of art paintings is $3 : 5.2$, determine the ratio of their perimeters and the ratio of their areas.

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Answer key

Ratio of Perimeters and Areas

Sheet 1

- 1) Find the ratio of perimeters and the ratio of areas, if the scale factor of two similar triangles is 2.3 : 4.5.

Ratio of perimeters is 2.3 : 4.5 ; Ratio of areas is 5.29 : 20.25

- 2) The scale factor of two regular octagons is 5 : 2. Find the ratio of their perimeters and the ratio of their areas.

Ratio of perimeters is 5 : 2 ; Ratio of areas is 25 : 4

- 3) If the scale factor of two similar geometric figures is 0.7 : 6, what would be the ratio of their perimeters and the ratio of their areas?

Ratio of perimeters is 0.7 : 6 ; Ratio of areas is 0.49 : 36

- 4) Determine the ratio of perimeters and the ratio of areas, if the scale factor of square M to square N is 9 : 7.

Ratio of perimeters is 9 : 7 ; Ratio of areas is 81 : 49

- 5) What are the ratio of perimeters and the ratio of areas, if the scale factor of two similar parallelograms is 8.1 : 1?

Ratio of perimeters is 8.1 : 1 ; Ratio of areas is 65.61 : 1

- 6) Gina decorates the stairway with a couple of art paintings of similar shape. If the scale factor of art paintings is 3 : 5.2, determine the ratio of their perimeters and the ratio of their areas.

Ratio of perimeters is 3 : 5.2 ; Ratio of areas is 9 : 27.04