

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

## Ratio of Perimeters and Areas

Sheet 3

- 1) Rectangles A and B are similar. If the scale factor of the rectangles is  $7 : 1$ , what would be the ratio of their perimeters and the ratio of their areas?

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- 2) Two regular nonagons have a scale factor of  $1.9 : 8$ . Determine the ratio of their perimeters and the ratio of their areas.

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- 3) What are the ratio of their perimeters and the ratio of their areas if the scale factor is  $9.6 : 1.7$ ?

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- 4) If the scale factor of two similar figures is  $3 : 5$ , what is the ratio of their perimeters and the ratio of their areas?

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- 5) The scale factor of two similar figures is  $4 : 7$ . What is the ratio of their perimeters and the ratio of their areas?

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- 6) Lucy uses interlocking plastic blocks to make a model of a square wall clock. The scale factor of the actual clock to the model clock is  $4.8 : 2.9$ . Find the ratio of their perimeters and the ratio of their areas.

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\_\_\_\_\_ ratio of two similar hexagons

\_\_\_\_\_ ratio of their perimeters

\_\_\_\_\_ ratio of their perimeters

**Ratio of Perimeters and Areas**

- 1) Rectangles A and B are similar. If the scale factor of the rectangles is  $7 : 1$ , what would be the ratio of their perimeters and the ratio of their areas?

**Ratio of perimeters is  $7 : 1$  ; Ratio of areas is  $49 : 1$**

- 2) Two regular nonagons have a scale factor of  $1.9 : 8$ . Determine the ratio of their perimeters and the ratio of their areas.

**Ratio of per**

# PREVIEW

- 3) What are the ratio of their perimeters and the ratio of their areas if the scale factor of two similar hexagons is  $9.6 : 1.7$ ?

ratio of their perimeters

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**Ratio of perin**

- 4) If the scale factor of two similar polygons is  $2 : 3$ , what is the ratio of their perimeters and the ratio of their areas?

ratio of their perimeters

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**Ratio of per**

- 5) The scale factor of two similar polygons is  $2 : 3$ . What is the ratio of their perimeters and the ratio of their areas?

ratio of their perimeters

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**Ratio of perimeters is  $2 : 3$  ; Ratio of areas is  $4 : 9$**

- 6) Lucy uses interlocking plastic blocks to make a model of a square wall clock. The scale factor of the actual clock to the model clock is  $4.8 : 2.9$ . Find the ratio of their perimeters and the ratio of their areas.

**Ratio of perimeters is  $4.8 : 2.9$  ; Ratio of areas is  $23.04 : 8.41$**