

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

## Perimeter and Area

L2S2

- 1) M and N are similar rhombuses. The areas of M and N are  $75 \text{ mm}^2$  and  $243 \text{ mm}^2$  respectively. What will be the perimeter of M, if the perimeter of N is 54 mm?

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- 2) The perimeters of similar trapezoids V and W are 46.8 m and 63 m respectively. If the area of trapezoid W is  $122.5 \text{ m}^2$ , find the area of trapezoid V.

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- 3) Q and R are similar figures. The area of Q is  $16 \text{ cm}^2$  and the area of R is  $49 \text{ cm}^2$  respectively. Find the perimeter of Q, if the perimeter of R is 28 cm.

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- 4) Two figures are similar. The area of the smaller figure is  $216 \text{ mm}^2$ , and the area of the larger figure is  $1600 \text{ mm}^2$ . Find the ratio of their perimeters.

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- 5) The areas of two regular pentagons are  $100 \text{ cm}^2$  and  $225 \text{ cm}^2$  respectively. Find the ratio of their perimeters.

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- 6) The perimeters of two similar quadrilaterals are 15 m and 19.5 m. Find the area of each quadrilateral, if the sum of their areas is  $10.76 \text{ m}^2$ .

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