



Tasikun Secondary School
Form 3 Mathematics
Worksheet 11.5
Chapter 11 Area and Volume (III)

Name : _____

Class : _____

No. : _____

1. The corresponding sides of two similar figures *A* and *B* are in the ratio 1 : 3. What is the ratio of their areas?

$$\frac{\text{Area of figure A}}{\text{Area of figure B}} = \left(\frac{1}{3}\right)^2$$

$$= \frac{1}{9}$$

The required ratio = 1 : 9

2. The base radii of two similar circular cones *A* and *B* are in the ratio 5 : 3. What is the ratio of their volumes?

$$\frac{\text{Volume of cone A}}{\text{Volume of cone B}} = \left(\frac{5}{3}\right)^3$$

$$= \frac{125}{27}$$

The required ratio = 125 : 27

3. In the figure, the ratio of the bases of two similar triangles *A* and *B* is 3 : 5. If the area of triangle *A* is 8 cm², find the area of triangle *B*.

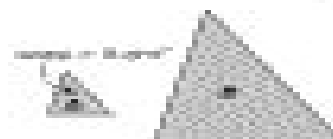
$$\frac{\text{Area of triangle B}}{\text{Area of triangle A}} = \left(\frac{\text{base of triangle B}}{\text{base of triangle A}}\right)^2$$

$$\frac{\text{Area of triangle B}}{8 \text{ cm}^2} = \left(\frac{5}{3}\right)^2$$

$$\therefore \text{Area of triangle B}$$

$$= 8 \times \frac{25}{9} \text{ cm}^2$$

$$= \frac{200}{9} \text{ cm}^2$$



4. Find the value of *x* in the pair of similar figures as shown.

$$\left(\frac{x}{5}\right)^2 = \frac{20}{28.8}$$

$$\frac{x^2}{5} = \frac{20}{28.8}$$

$$x^2 = 3.47$$

$$x = \underline{1.8}$$



area = 20 cm²



area = 28.8 cm²

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