

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date:

Name:

ID No.....

Multiple Choice Questions

Write the correct answer for each of the following:

1. The length of the hypotenuse of an isosceles right triangle with area 72cm^2 is

- (a) 12 cm (b) $12\sqrt{2}$ cm (c) 24 cm (d) 12.5 cm

Sol.

2. The perimeter of an equilateral triangle is 48 m. Its area is

- (a) $64\sqrt{3}\text{m}^2$ (b) $144\sqrt{3}\text{m}^2$ (c) $16\sqrt{3}\text{m}^2$ (d) $256\sqrt{3}\text{m}^2$

Sol.

3. The sides of a triangle are 20 cm, 37 cm and 51 cm long. Then the area of the triangle is

- (a) 306cm^2 (b) 612cm^2 (c) 102cm^2 (d) 153cm^2

Sol.

4. The area of an equilateral triangle with side $3\sqrt{2}$ cm is

- (a) $\frac{9\sqrt{3}}{2}\text{cm}^2$ (b) $9\sqrt{3}\text{cm}^2$ (c) 9cm^2 (d) $9\sqrt{2}\text{cm}^2$

Sol.

5. The length of each side of an equilateral triangle having an area of $16\sqrt{3}\text{cm}^2$ is

- (a) 10 cm (b) 4 cm (c) 6 cm (d) 8 cm

Sol.

6. The area of an isosceles triangle having base x cm and one of the equal side y cm is

- (a) $\frac{x^2 - y^2}{4}\text{cm}^2$ (b) $\frac{x}{2}\sqrt{y^2 - \frac{x^2}{2}}\text{cm}^2$ (c) $x\sqrt{4y^2 - x^2}\text{cm}^2$ (d) $\frac{x}{2}\sqrt{\frac{4y^2 - x^2}{4}}\text{cm}^2$

Sol.