# Heron's Formula

# Question 1.

The perimeter of a rhombus is 20 cm. One of its diagonals is 8 cm. Then area of the rhombus is

- (a)  $24 \text{ cm}^2$
- (b)  $42 \text{ cm}^2$
- (c)  $18 \text{ cm}^2$
- (d)  $36 \text{ cm}^2$

Answer: (a) 24 cm<sup>2</sup>

## Question 2.

If the height of a parallelogram having 500 cm<sup>2</sup> as the area is 20 cm, then its base is of length

- (a) 25 cm
- (b) 15 cm
- (c) 20 cm
- (d) 50 cm

Answer: (a) 25 cm

### Question 3.

The area of quadrilateral PQRS, in which PQ = 7 cm, QR = 6 cm, RS = 12 cm, PS = 15 cm and PR = 9 cm:

- (a)  $74.98 \text{ cm}^2$
- (b)  $25.25 \text{ cm}^2$
- (c)  $75 \text{ cm}^2$
- (d)  $68.25 \text{ cm}^2$

Answer: (a) 74.98 cm<sup>2</sup>





## Question 4.

The perimeter of a rhombus is 146 cm. One of its diagonals is 55 cm. The length of the other diagonal and area of the rhombus are

- (a) 48 cm,  $2320 \text{ cm}^2$
- (b) 48 cm, 1820 cm<sup>2</sup>
- (c) 88 cm, 1320 cm<sup>2</sup>
- (d) 48 cm, 1320 cm<sup>2</sup>

Answer: (d) 48 cm, 1320 cm<sup>2</sup>

### Question 5.

ength of perpendicular drawn on smallest side of scalene triangle is

- (a) Smallest
- (b) Largest
- (c) No relation
- (d) None

Answer: (c) No relation

#### Ouestion 6.

The area of a right angled triangle if the radius of its circumcircle is 3 cm and altitude drawn to the hypotenuse is 2 cm.

- (a)  $6 \text{ cm}^2$
- (b)  $3 \text{ cm}^2$
- (c)  $4 \text{ cm}^2$
- (d)  $8 \text{ cm}^2$

Answer: (a) 6 cm<sup>2</sup>

#### Ouestion 7.

The edges of a triangular board are 6 cm, 8 cm and 10 cm. The cost of painting it at the rate of 70 paise per cm<sup>2</sup> is

- (a) ₹17
- (b) ₹16.80
- (c) ₹7
- (d) ₹16

Answer: (b) ₹16.80





# Question 8.

The lengths of a triangle are 6 cm, 8 cm and 10 cm. Then the length of perpendicular from the opposite vertex to the side whose length is 8cm is:

- (a) 4 cm
- (b) 6 cm
- (c) 5 cm
- (d) 2 cm

Answer: (b) 6 cm

# Question 9.

The area of an equilateral triangle having side length equal to  $\frac{\sqrt{3}}{4}$  cm is:

- (a)  $\frac{2}{27}$  sq.cm (b)  $\frac{2}{15}$  sq.cm (c)  $\frac{3}{16}$  sq.cm (d)  $\frac{3}{14}$  sq.cm

Answer: (c)  $\frac{3}{16}$  sq.cm

## Question 10.

he base of an isosceles triangle is 10 cm and one of its equal sides is 13 cm. The area of the triangle is

- (a)  $80 \text{ cm}^2$
- (b)  $100 \text{ cm}^2$
- (c)  $50 \text{ cm}^2$
- (d)  $60 \text{ cm}^2$

Answer: (d) 60 cm<sup>2</sup>

## Ouestion 11.

The area of an equilateral triangle of side 6 cm is

- (a)  $18 \text{ cm}^2$
- (b)  $9\sqrt{3} \text{ cm}^2$
- (c)  $56\sqrt{3} \text{ cm}^2$
- (d)  $58\sqrt{3} \text{ cm}^2$





Answer: (b)  $9\sqrt{3}$  cm<sup>2</sup>

### Question 12.

Length of perpendicular drawn on longest side of a scale  $\Delta$  is

- (a) Smallest
- (b) Largest
- (c) No relation
- (d) None

Answer: (a) Smallest

#### Ouestion 13.

A square sheet whose perimeter is 32 cm is painted at the rate of Rs. 5 per m<sup>2</sup>. The cost of painting is:

- (a) ₹320
- (b) ₹350
- (c) ₹340
- (d) ₹160

Answer: (a) ₹320

### Ouestion 14.

The area of a triangle whose sides are 12 cm, 16 cm and 20 cm is

- (a)  $96 \text{ cm}^2$
- (b)  $320 \text{ cm}^2$
- (c)  $240 \text{ cm}^2$
- (d)  $72 \text{ cm}^2$

Answer: (a) 96 cm<sup>2</sup>

### Ouestion 15.

Each side of an equilateral triangle measures 10 cm. Then the area of the triangle is

- (a)  $43.3 \text{ cm}^2$
- (b)  $43.1 \text{ cm}^2$
- (c)  $43.4 \text{ cm}^2$
- (d)  $43.2 \text{ cm}^2$





Answer: (a) 43.3 cm<sup>2</sup>

### Question 16.

The length of the sides of a triangle are 5 cm, 7 cm and 8 cm. Area of the triangle is:

- (a)  $10\sqrt{3} \text{ cm}^2$
- (b)  $100\sqrt{3} \text{ cm}^2$
- (c)  $300 \text{ cm}^2$
- (d)  $50\sqrt{3} \text{ cm}^2$

Answer: (a)  $10\sqrt{3}$  cm<sup>2</sup>

# Question 17.

The area of a triangle with base 8 cm and height 10 cm is

- (a)  $20 \text{ cm}^2$
- (b)  $18 \text{ cm}^2$
- (c)  $80 \text{ cm}^2$
- (d)  $40 \text{ cm}^2$

Answer: (d) 40 cm<sup>2</sup>

# Question 18.

Find the length of each side of an equilateral triangle having area of 9 root 3 cm square

- (a) 36 cm
- (b) 5 cm
- (c) 15 cm
- (d) 6 cm

Answer: (d) 6 cm

