HERONS FORMULA

Q1 The area of a triangle is 150 cm^2 and its sides are in the ratio 3 : 4 : 5. What is its perimeter?

a. 10 cm
b. 30 cm
c. 45 cm
d. 60 cm

Q2 What in the area of an equilateral triangle with side 2 cm?

a. $\sqrt{6}cm^2$
b. $\sqrt{3}cm^2$
c. $\sqrt{8}cm^2$
d. $4cm^2$

Q3 What is the length of each side of an equilateral triangle having an area of $4\sqrt{3}\ cm^2$?

a. 4cm
b. 5cm
c. 5cm
d. 6cm

Q4 The sides of a triangle are 3 cm, 5 cm and 6 cm. What is its area?

a. $2\sqrt{3}cm^2$
b. $4\sqrt{14}cm^2$
c. $5\sqrt{12}cm^2$
d. $2\sqrt{5}cm^2$

Q5 What is the area of an equilateral triangle with side $\frac{\sqrt{3}}{4}$?

A 2/27 cm^2

B .2/15 cm^2
c. 3/16 cm^2
d. 3/14 cm^2

Q6 length of one of the equal sides of an isosceles triangle is 4 cm. If its be is 2 cm then what is its area?

a. $\sqrt{15}cm^2$
b. $\sqrt{13}cm^2$
c. $\sqrt{12}cm^2$
d. $\sqrt{14}cm^2$

Q7 If the perimeter of an equilateral triangle is 60 cm, then what is its area?

a. $200\sqrt{2}cm^2$
b. $100\sqrt{2}cm^2$
c. $100\sqrt{3}cm^2$
d. $200\sqrt{3}cm^2$

Q8 The sides of a triangle are 8 cm, 11 cm and 13 cm. What is its area?

a. $8\sqrt{30}cm^2$
b. $4\sqrt{10}cm^2$
c. $3\sqrt{100}cm^2$
d. $6\sqrt{200}cm^2$

Q9 The sides of a triangle are 15 cm, 17 cm and 8 cm. What is its area?

a. $20cm^2$
b. $40cm^2$
c. $60cm^2$
d. $80cm^2$

Q10 The sides of a triangle are in the ratio of 3 : 4 : 5. If its perimeter is 36 cm, then what is its area?

a. 32 cm^2
b. 54 cm^2
c. 67 cm^2

d. 72cm^2

CASE STUDY

Q11 There is a slide in a park. One of its side walls has been painted in some colour with a message, “Keep the park clean and green.” The sides of the wall are 11 m, 15m and 6 m.

C. 32 m
D. 15 m

(2) The formula of perimeter of triangle is

A. $\frac{a+b+c}{2}$
B. a + b + c
C. a – b – c
D. None of these

(3) Area of the triangle is

A. 15 m^2
B. 30 m^2
C. $20\sqrt{2}$ m^2
D. $20\sqrt{3}$ m^2

E. Find the cost of paint if the cost of paint is Rs.8 per m^2.

A 160

B 240

C 276.8

D NONE OF THE ABOVE

Answers

1. D
2. B
3. A
4. B
5. C
6. A
7. C
8. A
9. C
10. B

Q11 (1) B

(2) B

(3) C

(4) C