



1) What would be the area of a circle whose diameter is 35 cm?

- a) 962.5 cm^2 b) 875 cm^2
c) 981.5 cm^2 d) 886.5 cm^2
e) None of these

2) What is the area of the circle whose circumference is 264 cm^2 ?

- a) 5544 cm^2 b) 5454 cm^2
c) 5540 cm^2 d) 5548 cm^2
e) None of these

3) The area of a square is 9604 cm^2 . The diameter of a circle is equal to half of the side of the square. What will be the circumference of the circle?

- a) 144 cm b) 164 cm
c) 308 cm d) 154 cm
e) None of these

4) The ratio between the length and the breadth of a rectangle is 4 : 3 respectively. Also its perimeter is 112 cm. What is the area of a rectangle?

- a) 748 cm^2 b) 768 cm^2
c) 680 cm^2 d) 840 cm^2
e) None of these

5) The perimeter of one face of a cube is 20 cm. Its volume must be

- a) 8000 cm^3 b) 1000 cm^3
c) 125 cm^3 d) 400 cm^3
e) $\frac{1000}{27} \text{ cm}^3$

6) How many metres of cloth 2.5 m wide will be needed to make a conical tent with base radius 7 m and height 24 m?

- a) 120 m b) 180 m
c) 220 m d) 550 m
e) 440 m

7) The heights of two cylinders are in the ratio of 3 : 1. If the volumes of two cylinders be same, the ratio of their respective radius is

- a) $\sqrt{3} : 1$ b) $1 : \sqrt{3}$
c) 1 : 9 d) 1 : 3
e) 1 : 2

8) A solid sphere is melted and recast into a right circular cone with a base radius equal to the radius of the sphere. What is the ratio of the height and radius of cone so formed?

- a) 5 : 2 b) 4 : 3
c) 4 : 1 d) 3 : 2
e) 2 : 3





9) Three spherical balls of radii 1 cm, 2 cm and 3 cm are melted to form a single spherical ball. In the process, the loss of material is 25%. The radius of the new ball is

- a) 6 cm
- b) 5 cm
- c) 3 cm
- d) 2 cm
- e) 4.5 cm

10) The perimeter of an equilateral triangle is 40 m less than the perimeter of a square. If the respective ratio between the side of the triangle and the side of a square is 8 : 11, what is the area of the square? (In m^2)

- a) 441
- b) 324
- c) 289
- d) 576
- e) 484

11) The height of a triangle is equal to the perimeter of a square whose diagonal is $9\sqrt{2}$ metre and the base of the same triangle is equal to the side of the square whose area is $784m^2$. What is the area of the triangle? (in m^2)

- a) 504
- b) 558
- c) 478
- d) 522
- e) 496

12) The second largest and the smallest angles of a triangle are in the ratio 6 : 5. The difference between the second largest angle and the smallest angle of the triangle is equal to 9° . What is the difference between the smallest and the largest angles of the triangle?

- a) 36°
- b) 24°
- c) 12°
- d) 18°
- e) None of these

13) If the area of square is $3\sqrt{3}$ times the area of an equilateral triangle, then the ratio of the sides of the square to the side of the equilateral triangle is equal to

- a) 2 : 3
- b) 4 : 3
- c) 5 : 2
- d) 3 : 2
- e) None of these

14) The length of a rectangle exceeds its breadth by 5 cm. If the length is decreased by 3 cm and the breadth is increased by 2 cm, then the area of the new rectangle will be the same as the area of the original rectangle. What will be the perimeter of the original rectangle?

- a) 52 cm
- b) 13 cm
- c) 26 cm
- d) 39 cm
- e) None of these





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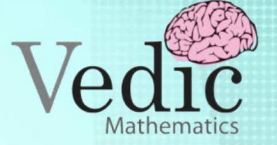
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15) The side of a square is 2 cm less than the length of a rectangle and the breadth of the rectangle is 5 cm less than the side of the square. The area of the square is 324 cm^2 . What is the area of the rectangle?

- a) 250 cm^2 b) 260 cm^2
c) 254 cm^2 d) 258 cm^2
e) None of these

16) A plot of 1800 sq. ft. is available at the rate of Rs 630 per sq. ft. If 45% of the total cost of the plot is to be paid at the time of booking it, how much is the booking amount?

- a) Rs 1134000 b) Rs 510300
c) Rs 6030007 d) Rs 600300
e) None of these

17) The perimeter of square is twice the perimeter of a rectangle. If the perimeter of the square is 56 cm. And the length of the rectangle is 9 cm., what is the difference between the breadth of the rectangle and the side of the square?

- a) 7 cm b) 9 cm
c) 11 cm d) 5 cm
e) None of these

18) The perimeter of a square is equal to the perimeter of a rectangle of length 30 cm. The area of the rectangle is 360 cm^2 . What is the side of the square?

- a) 24 cm b) 21 cm
c) 42 cm d) 18 cm
e) None of these

19) The area of a rectangle is equal to the area of a circle with circumference equal to 220 metres. What is the length of the rectangle if its breadth is 50 metres?

- a) 56 metres b) 83 metre
c) 77 metres d) 69 metres
e) None of these

20) The perimeter of a square is thrice the perimeter of a rectangle. If the perimeter of the square is 84 cm and the length of the rectangle is 8 cm, what is the difference between the breadth of the rectangle and the side of the square?

- a) 15 cm b) 19 cm
c) 10 cm d) 8 cm
e) None of these

21) The area of a circle is equal to the area of a rectangle with perimeter equal to 42 metres and breadth equal to 8.5 metres. What is the area of the circle?

- a) 116.25 m^2 b) 104.25 m^2
c) 146.25 m^2 d) 128.25 m^2
e) None of these





22) The area of a square is twice the area of a rectangle. If the area of the square is 324 cm^2 and the length of the rectangle is 13.5 cm , what is the difference between the breadth of the rectangle and the side of the square?

- a) 8 cm b) 10 cm
c) 12 cm d) 6 cm
e) None of these

