

Mensuration

Question 1.

1 sq. m is equal to :

- (a) 100 sq. cm
- (b) 1000 sq. cm
- (c) 10000 sq. cm
- (d) none of these

Answer: (c) 10000 sq. cm

Question 2.

The length and breadth of a rectangle are 10 cm and 8 cm respectively. If its length is doubled, then its new area is

- (a) 160 cm
- (b) 80 cm^2
- (c) 160 cm^2
- (d) None of these

Answer: (c) 160 cm^2

Question 3.

What is the amount of surface enclosed by a closed figure called?

- (a) Volume
- (b) Area
- (c) Space
- (d) Perimeter

Answer: (b) Area

Question 4.

Perimeter of a rectangle with length 5 m and breadth 50 cm is :

- (a) 11 m
- (b) 12 m
- (c) 13 m
- (d) 14 m

Answer: (a) 11 m

Question 5.

A table top is covered with 25 squares of equal size. The side of the square is 3 cm. What is the area of the table top?

- (a) 300 sq. cm
- (b) 225 cm
- (c) 225 sq. cm
- (d) 300 cm

Answer: (c) 225 sq. cm

Question 6.

The side of a square is 6 cm. If its side is doubled, then its new perimeter is

- (a) 48 cm
- (b) 36 cm
- (c) 60 cm
- (d) 24 cm

Answer: (a) 48 cm

Question 7.

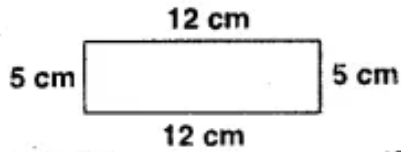
A farmer has a rectangular field of length and breadth 240 m and 180 m respectively. He wants to fence it with 3 rounds of rope. What is the total length of rope he must use?

- (a) 2700 m
- (b) 2520 m
- (c) 2400 m
- (d) None of these

Answer: (b) 2520 m

Question 8.

Perimeter of the fig.



- (a) 34 cm
- (b) 32 cm
- (c) 35 cm
- (d) none of these

Answer: (a) 34 cm

Question 9.

Perimeter of a rectangle in meters with length 180 cm and breadth 50 cm is :

- (a) 4.6 m
- (b) 4.7 m
- (c) 4.8 m
- (d) 4.2 m

Answer: (a) 4.6 m

Question 10.

Perimeter of a triangle having sides x, y and z is :

- (a) xyz
- (b) $x + yz$
- (c) $2xyz$
- (d) $x + y + z$

Answer: (d) $x + y + z$

Question 11.

Area of a square with perimeter 40 m is :

- (a) 100 m^2
- (b) 120 m^2
- (c) 110 m^2
- (d) none of these

Answer: (a) 100 m^2

Question 12.

Samuel wanted to erect some vertical stones along the boundary of his plot at a distance of 10 m each. If the length of the plot is 30 m and the breadth is 15 m how many stones are required?

- (a) 450
- (b) 45
- (c) 9
- (d) 10

Answer: (c) 9

Question 13.

The perimeter of a rectangle is 170 m and its length is 50 m. What is its breadth?

- (a) 80 m
- (b) 35 m
- (c) 55 m
- (d) 60 m

Answer: (b) 35 m

Question 14.

The side of a square is 8 cm. If its side is doubled, then its new perimeter is

- (a) 48 cm
- (b) 32 cm
- (c) 40 cm
- (d) 64 cm

Answer: (d) 64 cm

Question 15.

A room is 4 m long and 3 m 50 cm wide. How many square metres of carpet is needed to cover the floor of the room?

- (a) 14 m^2
- (b) 14 m
- (c) 7 m^2
- (d) None of these

Answer: (a) 14 m^2

Question 16.

The length and breadth of a rectangle are 40 cm and 10 cm respectively. Its perimeter is

- (a) 140 cm
- (b) 160 cm
- (c) 100 cm
- (d) 120 cm

Answer: (c) 100 cm

Question 17.

Area of a rectangle is :

- (a) Length x Breadth
- (b) $2 \times (\text{Length} \times \text{Breadth})$
- (c) Length + Breadth
- (d) $2 \times (\text{Length} + \text{Breadth})$

Answer: (a) Length x Breadth

Question 18.

Perimeter of a square of side 6.7 cm is :

- (a) 26.8 cm
- (b) 24.6 cm
- (c) 27.5 cm
- (d) none of these

Answer: (a) 26.8 cm

Question 19.

In a square shaped park, whose side measures 28 m, a rectangular pond is located at the centre with dimensions 3 m and 2 m. What is the area of the park excluding the pond?

- (a) 784 sq. m
- (b) 6 sq. m
- (c) 778 sq. m
- (d) 708 sq. m

Answer: (c) 778 sq. m

Question 20.

The area of a rectangle is 630 sq. cm and its breadth is 15 cm. What is its length?

- (a) 40 cm

- (b) 60 cm
- (c) 42 cm
- (d) 35 cm

Answer: (c) 42 cm

Question 21.

An isosceles triangle has a measure of p units for its equal sides and q units for its unequal side. What is its perimeter?

- (a) $2(p + q)$ units
- (b) $2p + q$ units
- (c) $2q + p$ units
- (d) $2(q + p)$ units

Answer: (b) $2p + q$ units

Question 22.

Perimeter of the equilateral triangle having each side 6 cm is :

- (a) 12 cm
- (b) 18 cm
- (c) 24 cm
- (d) none of these

Answer: (b) 18 cm

Question 23.

Perimeter of a regular pentagon of side 4 cm is :

- (a) 20 cm
- (b) 24 cm
- (c) 16 cm
- (d) none of these

Answer: (a) 20 cm

Question 24.

The area of square is 100 cm^2 . Its side is

- (a) 20 cm
- (b) 5 cm
- (c) 10 cm
- (d) 10.5 cm

Answer: (c) 10 cm

Question 25.

The length and breadth of a rectangular plot are 900 m and 700 m respectively. If three rounds of fence is fixed around the field at the cost of Rs. 8 per metre, what is the total amount spent?

- (a) Rs. 768
- (b) Rs. 7680
- (c) Rs. 76,800
- (d) Rs. 768,000

Answer: (c) Rs. 76,800

Question 26.

80 students of the same height stand with both hands stretched all along the sides of a rectangular garden, each student covering a length of 1.75 m. What is the perimeter of the garden?

- (a) 1400 m
- (b) 140 m
- (c) 14 m
- (d) 1400 km

Answer: (b) 140 m

Question 27.

Perimeter of a rectangle of length 7.5 cm and breadth 3 cm is :

- (a) 20 cm
- (b) 21 cm
- (c) 22 cm
- (d) none of these

Answer: (b) 21 cm

Question 28.

Square is a rectangle whose :

- (a) all sides are equal
- (b) two sides are equal
- (c) three sides are equal
- (d) none of these

Answer: (a) all sides are equal

Question 29.

The side of a square is 12 m. Its perimeter is

- (a) 36 m
- (b) 24 m
- (c) 48 m
- (d) 144 m

Answer: (c) 48 m

Question 30.

Area of a square in cm^2 if its side is 1 m is :

- (a) 10000 cm^2
- (b) 100 cm^2
- (c) 1000 cm^2
- (d) none of these

Answer: (a) 10000 cm^2

Question 31.

On a wall of dimensions 10.5 m long and 8.5 m wide, a square shaped wall poster is stuck at the centre whose side measure is 2.5 m. If the remaining part of the wall is to be painted with pink colour costing Rs. 12 per sq. m, how much does it cost?

- (a) Rs. 89.25
- (b) Rs. 996
- (c) Rs. 830
- (d) Rs. 12

Answer: (b) Rs. 996

Question 32.

2 sq. m is equal to :

- (a) 20000 sq. cm
- (b) 2000 sq. cm
- (c) 200 sq. cm
- (d) none of these

Answer: (a) 20000 sq. cm

Question 33.

Breadth of a rectangle is :

- (a) Area \times Length
- (b) Area $+$ Length
- (c) Area \div Length
- (d) none of these

Answer: (c) Area \div Length

Question 34.

Width of a rectangle whose area is 209 m^2 and length is 19 m is :

- (a) 11 m
- (b) 12 m
- (c) 13 m
- (d) 14 m

Answer: (a) 11 m

Question 35.

A wooden plank measures 6 m in length and 3 m in breadth. If five such wooden planks are arranged in order, what is the area occupied by them?

- (a) 18 sq. m
- (b) 90 sq. m
- (c) 5 sq. m
- (d) 95 sq. m

Answer: (b) 90 sq. m

Question 36.

Perimeter of a square = \times length of a side

- (a) 4
- (b) 3
- (c) 2
- (d) None of these

Answer: (a) 4

Question 37.

Area of a square having perimeter 16 cm is :

- (a) 16 sq. cm

- (b) 4 sq. cm
- (c) 8 sq. cm
- (d) none of these

Answer: (a) 16 sq. cm

Question 38.

Area of a rectangle in m^2 if length is 120 cm, and breadth is 50 cm :

- (a) 0.6 m^2
- (b) 0.06 m^2
- (c) 6 m^2
- (d) none of these

Answer: (a) 0.6 m^2

Question 39.

What is the perimeter of a rectangle of length l and breadth?

- (a) $2l+b$ units
- (b) $l \times b$ units
- (c) $2(l+b)$ units
- (d) $2(l-b)$ units

Answer: (c) $2(l+b)$ units

Question 40.

The length of a rectangle is 150 cm. If its breadth is 1 m, then its perimeter is

- (a) 300 cm
- (b) 250 cm
- (c) 5 m
- (d) 2.5 m

Answer: (c) 5 m

Question 41.

Perimeter of a regular hexagon whose side is 11 cm is :

- (a) 66 cm
- (b) 77 cm

- (c) 55 cm
- (d) none of these

Answer: (a) 66 cm

Question 42.

Perimeter of a square of sides 0.01 m is :

- (a) 0.02 m
- (b) 0.03 m
- (c) 0.04 m
- (d) none of these

Answer: (c) 0.04 m

Question 43.

Meera went to a park 150 m long and 80 m wide. She took one complete round on its boundary. What is the distance covered by her?

- (a) 230 m
- (b) 460 m
- (c) 300 m
- (d) None of these

Answer: (b) 460 m

Question 44.

What do you call the total boundary length of a closed figure?

- (a) Area
- (b) Volume
- (c) Perimeter
- (d) Region

Answer: (c) Perimeter

Fill in the blanks:

1. Perimeter of a triangle is 57 cm. If two of its sides are 18 cm and 13 cm then third side will be

Answer: 26 cm

2. Length of a rectangle is 11 cm, and breadth 9 cm. Area is

Answer: 99 cm^2

3. Perimeter of a square having each side 0.04 m is

Answer: 0.16 m

4. Perimeter of a square whose side is 8m is

Answer: 32 m

5. If perimeter of a regular pentagon is 65 cm then its sides is

Answer: 13 cm

6. Area of a square having perimeter 52 m is

Answer: 169 sq.m

7. $1 \text{ sq. m} = \dots\dots\dots \text{ sq. cm.}$

Answer: 10000 sq.cm

8. Area of a rectangle is 144 sq. cm and its length is 16 cm. The breadth will be

Answer: 9 cm

9. Perimeter of a square whose area is 900 cm^2 is

Answer: 120 cm

Match the following:

1.

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(a) Area of a rectangle	(i) Side x Side
(b) Perimeter of a square	(ii) 1 sq. m
(c) Area of a square	(iii) 2 (Length + Breadth)
(d) Perimeter of a triangle	(iv) Number of sides x Length of the side
(e) Perimeter of a rectangle	(v) Length x Breadth
(f) 1 cm x 1 cm	(vi) 4 x side
(g) Perimeter of a polygon	(vii) Area ÷ Length
(h) 10000 sq. cm.	(viii) 3 x Side
(i) Breadth of a rectangle	(ix) 100 sq. mm.

Answer:

(a) Area of a rectangle	(v) Length x Breadth
(b) Perimeter of a square	(vi) 4 x side
(c) Area of a square	(i) Side x Side
(d) Perimeter of a triangle	(viii) 3 x Side
(e) Perimeter of a rectangle	(iii) 2 (Length + Breadth)
(f) 1 cm x 1 cm	(ix) 100 sq. mm.
(g) Perimeter of a polygon	(iv) Number of sides x Length of the side
(h) 10000 sq. cm.	(ii) 1 sq. m
(i) Breadth of a rectangle	(vii) Area ÷ Length