

Mensuration test

Q1. The area of a trapezium is 480 cm^2 , the distance between two parallel sides is 15 cm and one of the parallel side is 20 cm . The other parallel side is:

- (a) 20 cm (b) 34 cm (c) 44 cm (d) 50 cm

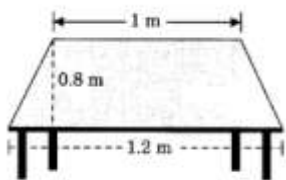
Q2. The area of a rhombus is 240 cm^2 and one of the diagonals is 16 cm . Find the other diagonal.

- (a) 16 cm (b) 20 cm (c) 30 cm (d) 36 cm (e) None of these

Q3. The height of a cylinder whose radius is 7 cm and the total surface area is 968 cm^2 is:

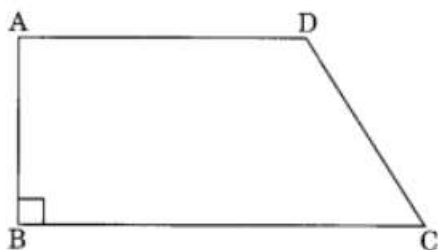
- (a) 15 cm (b) 17 cm (c) 19 cm (d) 21

Q4. The shape of the top surface of a table is a trapezium. Find its area if its parallel sides are 1 m and 1.2 m and perpendicular distance between them is 0.8 m .



- (a) $0.88 \text{ metre square}$ (b) $1.76 \text{ metre square}$ (c) $0.44 \text{ metre square}$ (d) None of these

Q5. Length of the fence of a trapezium-shaped field ABCD is 120 m . If $BC = 48 \text{ m}$, $CD = 17 \text{ m}$ and $AD = 40 \text{ m}$, find the area of this field. Side AB is perpendicular to the parallel sides AD and BC.



- (a) 400 metre square (b) 660 metre square (c) Data inadequate (d) None of these

Q6. Find the area of a rhombus whose side is 5 cm and whose altitude is 4.8 cm . If one of its diagonals is 8 cm long, find the length of the other diagonal.

- (a) 6 cm (b) 7 cm (c) 8 cm (d) 12 cm

Q7. The floor of a building consists of 3000 tiles which are rhombus shaped and each of its diagonals are 45 cm and 30 cm in length. Find the total cost of polishing the floor, if the cost per m^2 is ₹ 4 .

- (a) Rs. 675 (b) Rs. 800 (c) Rs. 810 (d) None of these

Q8. 2 cubes each of volume 64 cm^3 are joined end to end. Find the surface area of the resulting cuboid.

- (a) 160 cm square (b) 180 cm square (c) 200 cm square (d) 250 cm square (e) None of these

Q9. A toy is in the form of a cone of radius 3.5 cm mounted on a hemisphere of the same radius. The total height of the toy is 15.5 cm . Find the total surface area of the toy.

- (a) 214.5 cm square (b) 137.5 cm square (c) 12.5 cm square (d) None of these

Q10. A solid is in the shape of a cone standing on a hemisphere with both their radii being equal to 1 cm and the height of the cone is equal to its radius. Find the volume of the solid in terms of π .

- (a) $\pi \text{ cm cube}$ (b) $2\pi \text{ cm cube}$ (c) $\frac{1}{2}\pi \text{ cm cube}$ (d) None of these

Answer key

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