

T1-Measurements
Model Question Paper II
8th Standard

Maths

Reg.No. :

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I. Answer all the questions

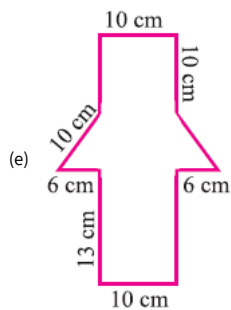
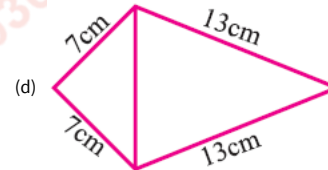
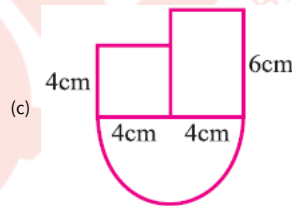
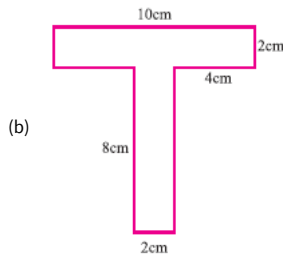
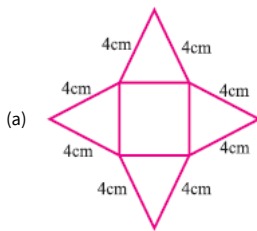
Time : 01:30:00 Hrs

Total Marks : 35

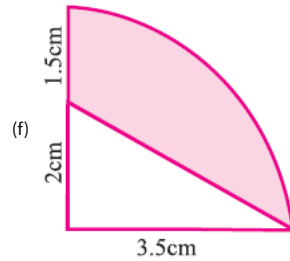
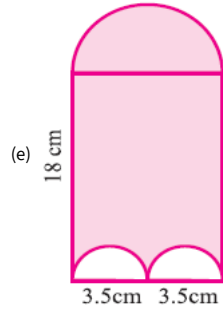
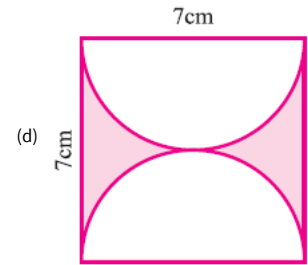
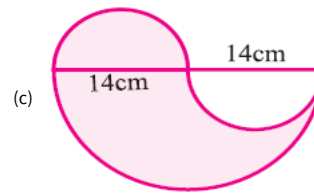
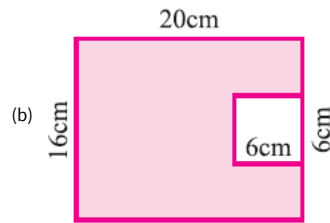
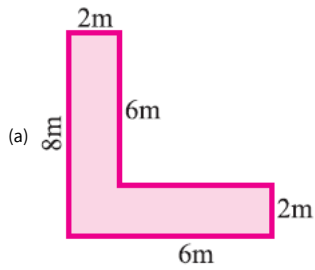
10 x 1 = 10

Part-A

- 1) Area of a semicircle is _____ times the area of the circle.
(a) two (b) four (c) one-half (d) one-quarter
- 2) If the radius of a circle is 7 m, then the area of the semicircle is _____.
(a) 77 m^2 (b) 44 m^2 (c) 88 m^2 (d) 154 m^2
- 3) The perimeter of the quadrant of a circle of diameter 84 cm is _____.
(a) 150 cm (b) 120 cm (c) 21 cm (d) 42 cm
- 4) Quadrant of a circle is _____ of the circle.
(a) one-half (b) one-fourth (c) one-third (d) two-thirds
- 5) The central angle of a semicircle is _____.
(a) 90° (b) 270° (c) 180° (d) 360°
- 6) The central angle of a quadrant is _____.
(a) 90° (b) 180° (c) 270° (d) 0°
- 7) If the area of a semicircle is 84 cm^2 , then the area of the circle is _____.
(a) 144 cm^2 (b) 42 cm^2 (c) 168 cm^2 (d) 288 cm^2
- 8) Find the perimeter and area of semicircles whose diameters are,
(a) 2.8 cm (b) 56 cm (c) 84 cm (d) 112 m
- 9) Find the perimeter of the following figures



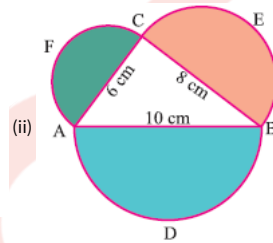
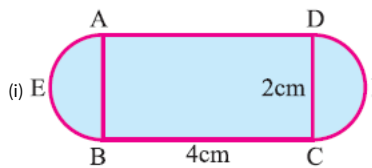
10) Find the area of the coloured regions



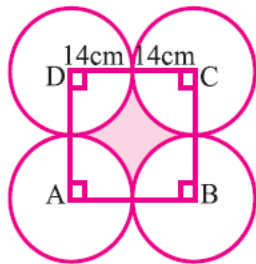
Part-B

$$5 \times 2 = 10$$

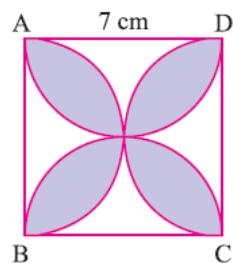
- 11) The radius of a circle is 21 cm. Find the perimeter and area of a quadrant of the circle.
 12) The length of a chain used as the boundary of a semicircular park is 36 m. Find the area of the park.
 13) Find the perimeter and area of the shaded portion



- 14) Four equal circles are described about four corners of a square so that each touches two of the others as shown in the Fig. 2.35. Find the area of the shaded portion, each side of the square measuring 28 cm.



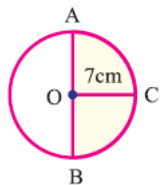
- 15) Find the area of the shaded portions in the Fig. 2.38, where ABCD is a square of side 7 cm.



Part-C

$$5 \times 3 = 15$$

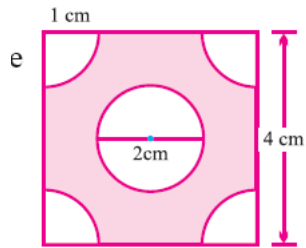
- 16) Find the area of the semicircle ACB and the quadrant BOC in the given figure.



- 17) A park is in the shape of a semicircle with radius 21 m. Find the cost of fencing it at the cost of Rs 5 per metre.

18) A cow is tied up for grazing inside a rectangular field of dimensions 40 m # 36 m in one corner of the field by a rope of length 14 m. Find the area of the field left ungrazed by the cow.

19) Find the area of the shaded region shown in the figure. The four corners are quadrants. At the centre, there is a circle of diameter 2 cm.



20) On a square handkerchief, nine circular designs each of radius 7 cm are made. Find the area of the remaining portion of the handkerchief.



