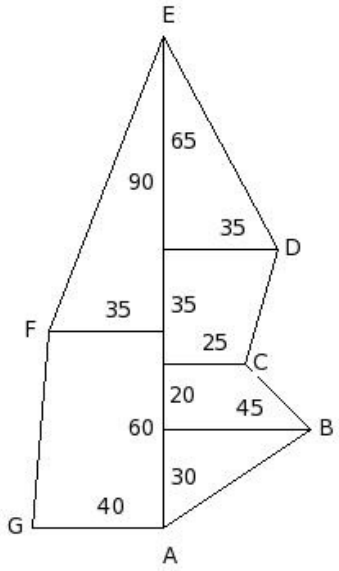
EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Mensuration

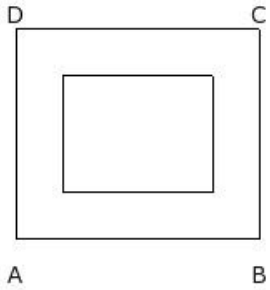
Grade : CBSE Grade VIII

1. Find the area of the field shown in the figure. All dimensions are in m



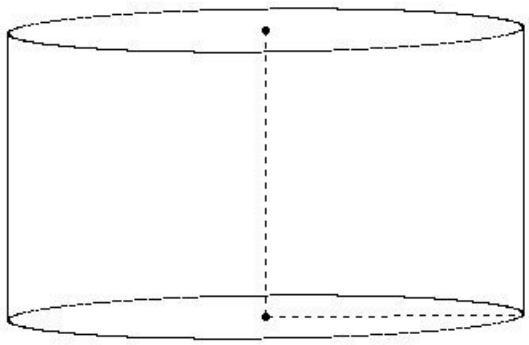
(i) 7227.50 sq.m (ii) 7607.50 sq.m (iii) 7367.50 sq.m (iv) 7517.50 sq.m (v) 7387.50 sq.m

2. If the inner length, outer breadth and area of the outer rectangle of a rectangular path are 9.00 cm, 12.60 cm and 183.96 sq.cm respectively, the area of the rectangular path =



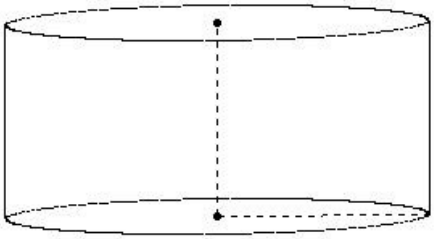
(i) 115.96 sq.cm (ii) 120.96 sq.cm (iii) 136.96 sq.cm (iv) 92.96 sq.cm (v) 142.96 sq.cm

3. If the radius of a cylinder is 16.00 cm and L.S.A is 1810.29 sq.cm, its T.S.A is



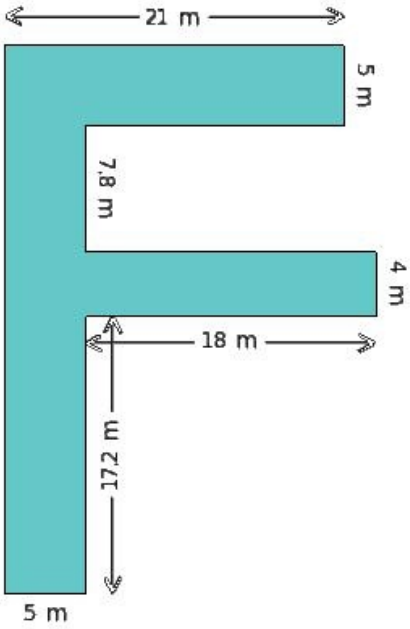
(i) 3419.43 sq.cm (ii) 3589.43 sq.cm (iii) 3159.43 sq.cm (iv) 3579.43 sq.cm (v) 3269.43 sq.cm

4. If the height of a cylinder is 12.00 cm and base area is 531.14 sq.cm, its radius is



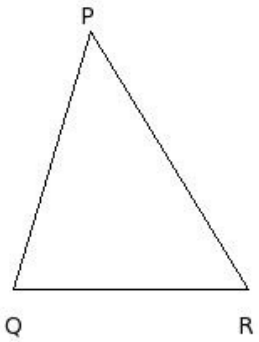
(i) 18.00 cm (ii) 13.00 cm (iii) 10.00 cm (iv) 16.00 cm (v) 8.00 cm

5. Find the area of the shaded region given below



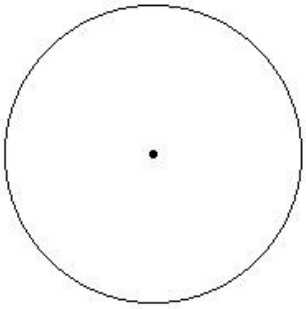
(i) 295.00 sq.m (ii) 322.00 sq.m (iii) 346.00 sq.m (iv) 304.00 sq.m (v) 326.00 sq.m

6. In △PQR, if QR = 14 cm, RP = 18 cm, PQ = 16 cm, then perimeter of the triangle =



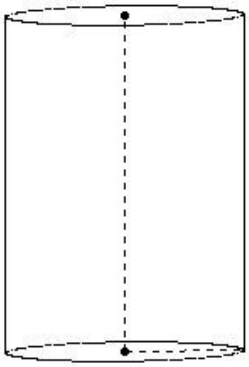
(i) 53.00 cm (ii) 48.00 cm (iii) 45.00 cm (iv) 51.00 cm (v) 43.00 cm

7. If circumference of the circle is 56.57 cm, the area of the semicircle is



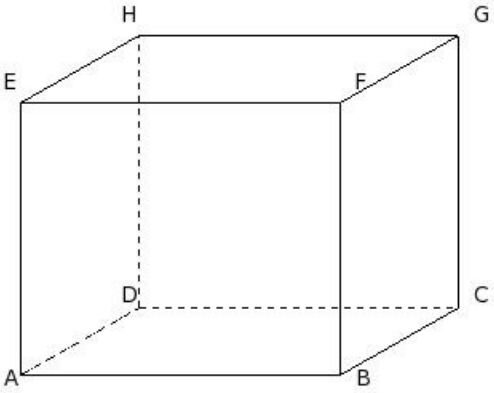
(i) 109.29 sq.cm (ii) 154.29 sq.cm (iii) 133.29 sq.cm (iv) 127.29 sq.cm

8. If the height of a cylinder is 20.00 cm and volume is 3080.00 cu.cm, its radius is



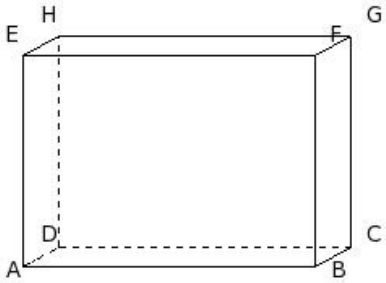
(i) 7.00 cm (ii) 5.00 cm (iii) 6.00 cm (iv) 9.00 cm (v) 8.00 cm

9. If the length, height and L.S.A of a cuboid are 20.00 cm, 17.00 cm and 1258.00 sq.cm respectively, its T.S.A is



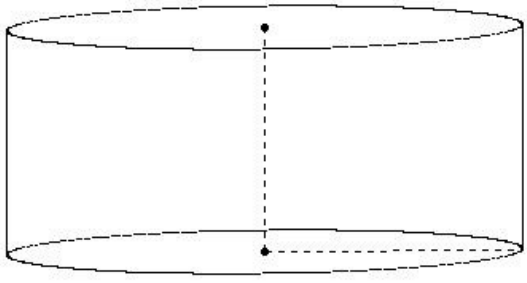
(i) 1968.00 sq.cm (ii) 1888.00 sq.cm (iii) 2168.00 sq.cm (iv) 1938.00 sq.cm (v) 1718.00 sq.cm

10. If the length, breadth and height of a cuboid are 18.00 cm, 5.00 cm and 13.00 cm respectively, its T.S.A is



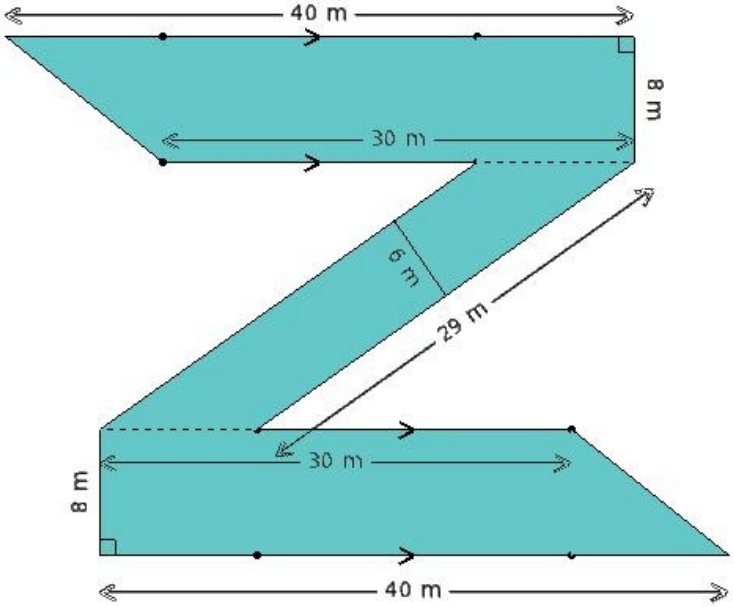
(i) 792.00 sq.cm (ii) 765.00 sq.cm (iii) 793.00 sq.cm (iv) 750.00 sq.cm (v) 778.00 sq.cm

11. If the radius of a cylinder is 16.00 cm and L.S.A is 1408.00 sq.cm, its base area is



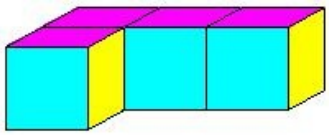
(i) 820.57 sq.cm (ii) 777.57 sq.cm (iii) 802.57 sq.cm (iv) 821.57 sq.cm (v) 804.57 sq.cm

12. Find the area of the shaded region



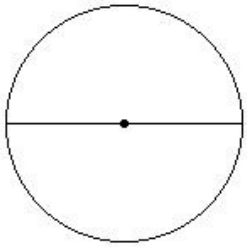
(i) 735.00 sq.m (ii) 732.00 sq.m (iii) 733.00 sq.m (iv) 734.00 sq.m (v) 736.00 sq.m

13. Find the volume of the given object if each individual cube is 1 cu.cm



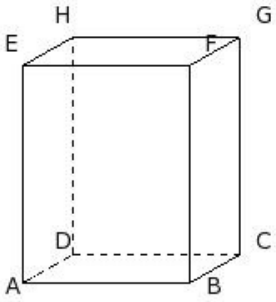
(i) 3 cu.cm (ii) 4 cu.cm (iii) 6 cu.cm (iv) 5 cu.cm (v) 2 cu.cm

14. If diameter of the circle is 14.00 cm, the area of the circle is



(i) 152.00 sq.cm (ii) 162.00 sq.cm (iii) 154.00 sq.cm (iv) 177.00 sq.cm (v) 129.00 sq.cm

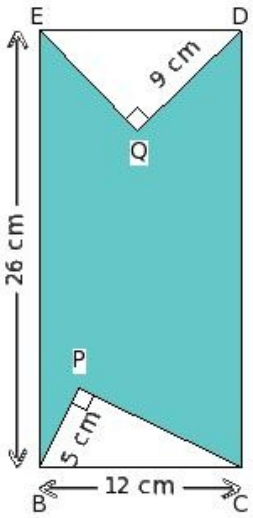
15. If the length, height and L.S.A of a cuboid are 10.00 cm, 13.00 cm and 442.00 sq.cm respectively, its volume is



(i) 910.00 cu.cm (ii) 926.00 cu.cm (iii) 903.00 cu.cm (iv) 882.00 cu.cm

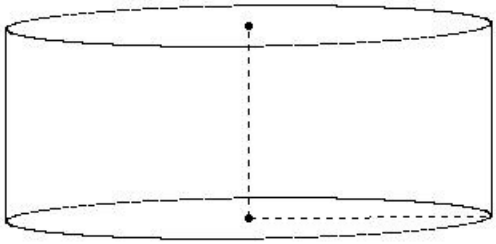
In the given figure, BCDE is a rectangle in which BC = 12 cm and EB = 26 cm.

16. Also, △PBC and △QDE are the right angled triangles in which ∠CPB = ∠EQD = 90°, PB = 5 cm and QD = 9 cm. Find the area of the shaded region



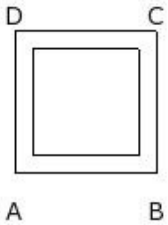
(i) 247.01 sq.cm (ii) 248.01 sq.cm (iii) 249.01 sq.cm (iv) 251.01 sq.cm (v) 250.01 sq.cm

17. If the radius of a cylinder is 15.00 cm and L.S.A is 1131.43 sq.cm, its height is



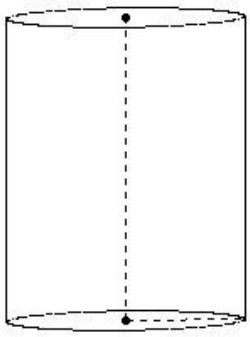
(i) 15.00 cm (ii) 17.00 cm (iii) 7.00 cm (iv) 12.00 cm (v) 9.00 cm

18. If the outer and inner sides of a square path are 8.00 cm and 6.00 cm respectively, the area of the square path =



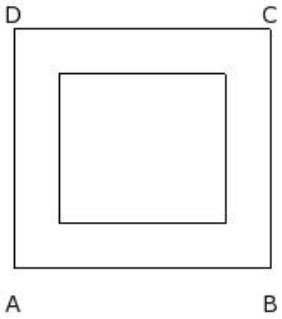
(i) 31.00 sq.cm (ii) 25.00 sq.cm (iii) 28.00 sq.cm (iv) 23.00 sq.cm (v) 33.00 sq.cm

19. If the radius of a cylinder is 7.00 cm and volume is 2772.00 cu.cm, its height is



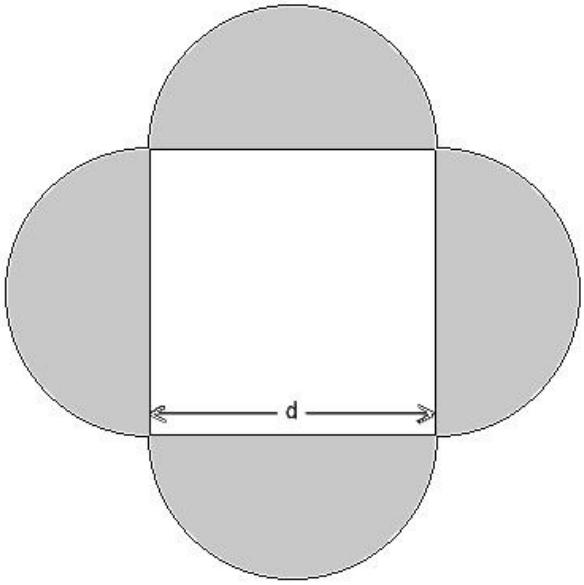
(i) 23.00 cm (ii) 21.00 cm (iii) 18.00 cm (iv) 15.00 cm (v) 13.00 cm

20. If the inner length, inner breadth and width of a rectangular path are 10.00 cm, 9.00 cm and 2.70 cm respectively, the area of the outer rectangle of the rectangular path =



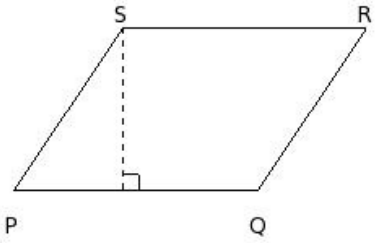
(i) 235.76 sq.cm (ii) 197.76 sq.cm (iii) 221.76 sq.cm (iv) 204.76 sq.cm (v) 233.76 sq.cm

21. In the given figure, d = 18.00 cm is the diameter of the semi-circles. Find the area of the shaded region



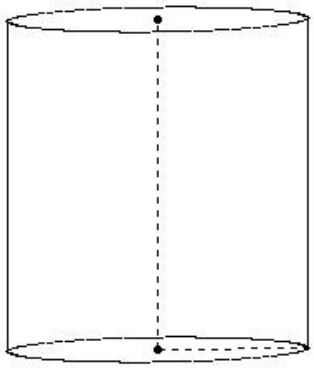
(i) 494.14 sq.cm (ii) 532.14 sq.cm (iii) 509.14 sq.cm (iv) 483.14 sq.cm (v) 511.14 sq.cm

22. In parallelogram PQRS, if base PQ = 15.00 cm and area is 149.70 sq.cm, the corresponding height to the base PQ is



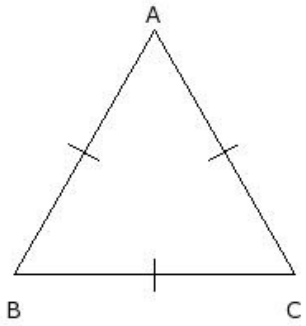
(i) 7.98 cm (ii) 8.98 cm (iii) 9.98 cm (iv) 10.98 cm (v) 11.98 cm

23. If the height of a cylinder is 20.00 cm and T.S.A is 1640.57 sq.cm, its volume is



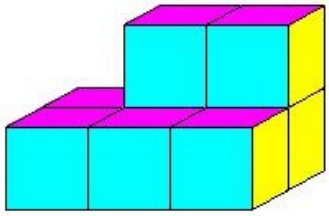
(i) 4921.43 cu.cm (ii) 5091.43 cu.cm (iii) 5131.43 cu.cm (iv) 5331.43 cu.cm (v) 4841.43 cu.cm

24. If area of an equilateral triangle is 125.14 sq.cm, the side of the equilateral triangle =



(i) 14.00 cm (ii) 20.00 cm (iii) 22.00 cm (iv) 17.00 cm (v) 12.00 cm

25. Find the volume of the given object if each individual cube is 1 cu.cm



(i) 6 cu.cm (ii) 10 cu.cm (iii) 7 cu.cm (iv) 8 cu.cm (v) 9 cu.cm

Assignment Key

1) (v)	2) (ii)	3) (i)	4) (ii)	5) (ii)	6) (ii)
7) (iv)	8) (i)	9) (iv)	10) (v)	11) (v)	12) (iv)
13) (ii)	14) (iii)	15) (i)	16) (iii)	17) (iv)	18) (iii)
19) (iii)	20) (iii)	21) (iii)	22) (iii)	23) (ii)	24) (iv)
25) (iv)					