EduSahara™ Assignment

Name : Cylinder

Chapter : Volume and Surface Area of Solids

Grade : ICSE Grade IX

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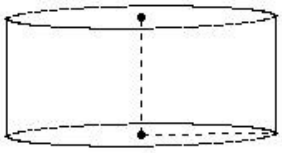
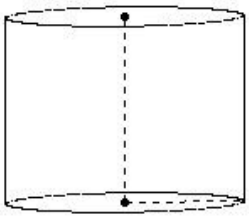
1. If the height of a cylinder is 7.00 cm and L.S.A is 352.00 sq.cm, its radius is



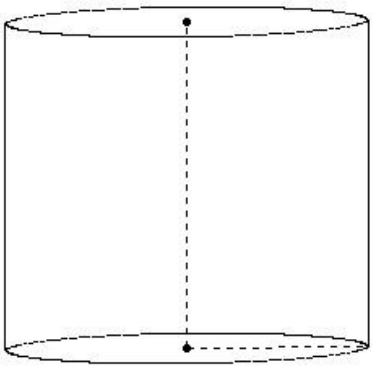
(i) 8.00 cm (ii) 7.00 cm (iii) 10.00 cm (iv) 6.00 cm (v) 9.00 cm

2. If the height of a cylinder is 11.00 cm and L.S.A is 484.00 sq.cm, its base area is



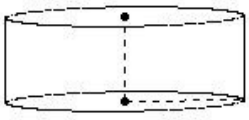
(i) 154.00 sq.cm (ii) 141.00 sq.cm (iii) 156.00 sq.cm (iv) 172.00 sq.cm (v) 139.00 sq.cm

3. If the height of a cylinder is 20.00 cm and L.S.A is 1382.86 sq.cm, its T.S.A is



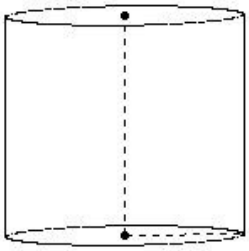
(i) 2013.43 sq.cm (ii) 2143.43 sq.cm (iii) 2223.43 sq.cm (iv) 2103.43 sq.cm (v) 2373.43 sq.cm

4. If the height of a cylinder is 5.00 cm and L.S.A is 220.00 sq.cm, its volume is



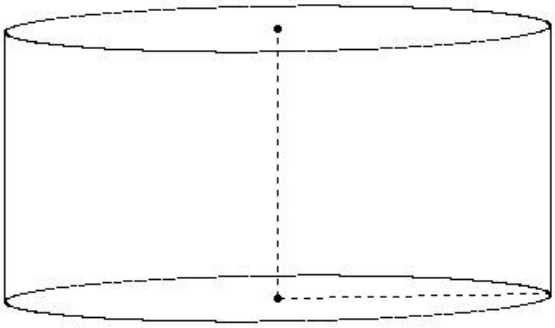
(i) 763.00 cu.cm (ii) 778.00 cu.cm (iii) 798.00 cu.cm (iv) 770.00 cu.cm (v) 746.00 cu.cm

5. If the height of a cylinder is 13.00 cm and T.S.A is 880.00 sq.cm, its radius is



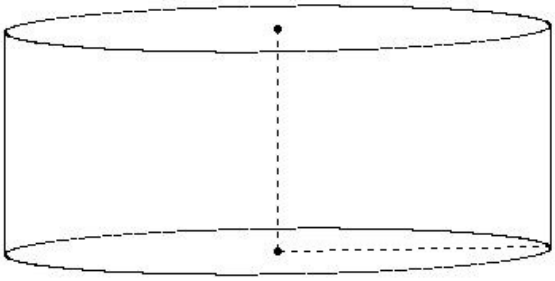
(i) 5.00 cm (ii) 7.00 cm (iii) 8.00 cm (iv) 6.00 cm (v) 9.00 cm

6. If the height of a cylinder is 17.00 cm and T.S.A is 3633.14 sq.cm, its base area is



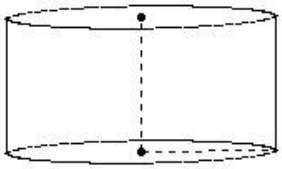
(i) 924.29 sq.cm (ii) 902.29 sq.cm (iii) 883.29 sq.cm (iv) 930.29 sq.cm (v) 908.29 sq.cm

7. If the height of a cylinder is 14.00 cm and T.S.A is 3312.57 sq.cm, its L.S.A. is



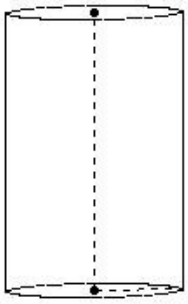
(i) 1356.00 sq.cm (ii) 1636.00 sq.cm (iii) 1496.00 sq.cm (iv) 1776.00 sq.cm (v) 1416.00 sq.cm

8. If the height of a cylinder is 8.00 cm and T.S.A is 804.57 sq.cm, its volume is



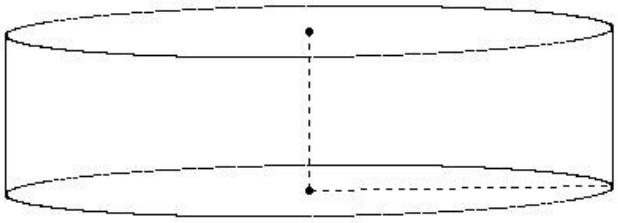
(i) 1839.14 cu.cm (ii) 1609.14 cu.cm (iii) 1729.14 cu.cm (iv) 1579.14 cu.cm (v) 1369.14 cu.cm

9. If the height of a cylinder is 16.00 cm and volume is 1257.14 cu.cm, its radius is



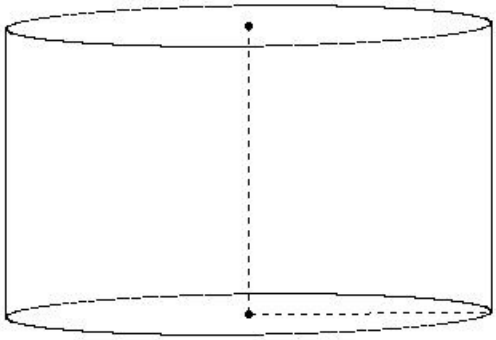
(i) 5.00 cm (ii) 6.00 cm (iii) 3.00 cm (iv) 7.00 cm (v) 4.00 cm

10. If the height of a cylinder is 10.00 cm and volume is 11345.71 cu.cm, its base area is



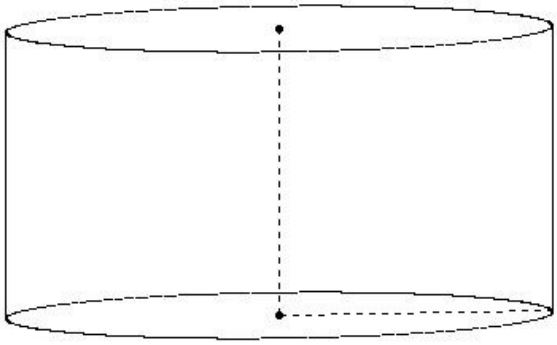
(i) 1314.57 sq.cm (ii) 884.57 sq.cm (iii) 1134.57 sq.cm (iv) 1354.57 sq.cm (v) 964.57 sq.cm

11. If the height of a cylinder is 18.00 cm and volume is 12728.57 cu.cm, its L.S.A. is



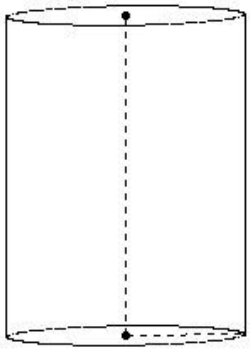
(i) 1777.14 sq.cm (ii) 1697.14 sq.cm (iii) 1867.14 sq.cm (iv) 1547.14 sq.cm (v) 1427.14 sq.cm

12. If the height of a cylinder is 18.00 cm and volume is 16349.14 cu.cm, its T.S.A is



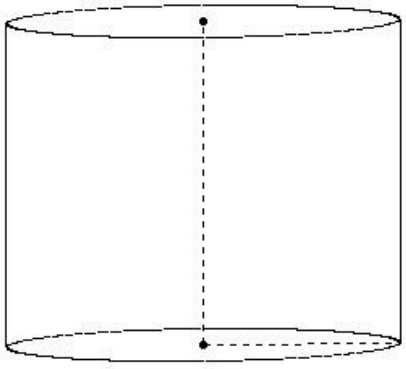
(i) 3740.00 sq.cm (ii) 3920.00 sq.cm (iii) 3510.00 sq.cm (iv) 3960.00 sq.cm (v) 3600.00 sq.cm

13. If the radius of a cylinder is 7.00 cm and height is 19.00 cm, its base area is



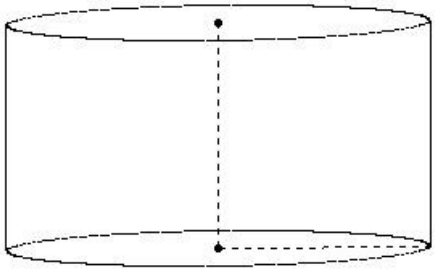
(i) 172.00 sq.cm (ii) 169.00 sq.cm (iii) 154.00 sq.cm (iv) 140.00 sq.cm (v) 131.00 sq.cm

14. If the radius of a cylinder is 12.00 cm and height is 20.00 cm, its L.S.A. is



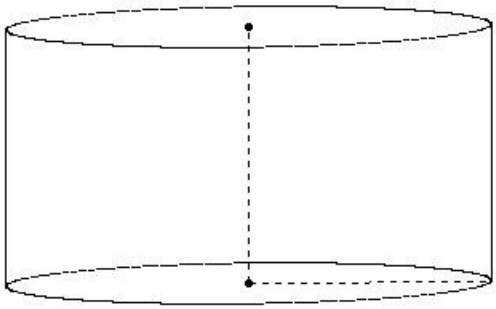
(i) 1558.57 sq.cm (ii) 1388.57 sq.cm (iii) 1508.57 sq.cm (iv) 1748.57 sq.cm

15. If the radius of a cylinder is 13.00 cm and height is 14.00 cm, its T.S.A is



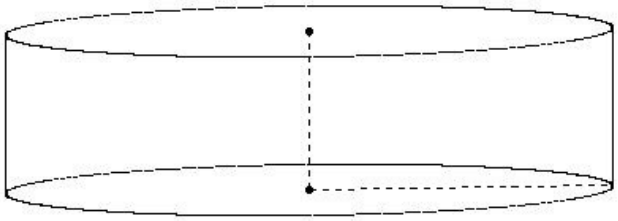
(i) 2376.29 sq.cm (ii) 2386.29 sq.cm (iii) 1946.29 sq.cm (iv) 2206.29 sq.cm (v) 2156.29 sq.cm

16. If the radius of a cylinder is 15.00 cm and height is 16.00 cm, its volume is



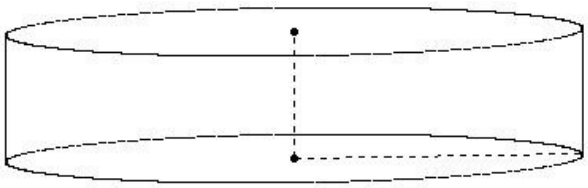
(i) 14114.29 cu.cm (ii) 11314.29 cu.cm (iii) 12814.29 cu.cm (iv) 9614.29 cu.cm

17. If the radius of a cylinder is 19.00 cm and L.S.A is 1194.29 sq.cm, its height is



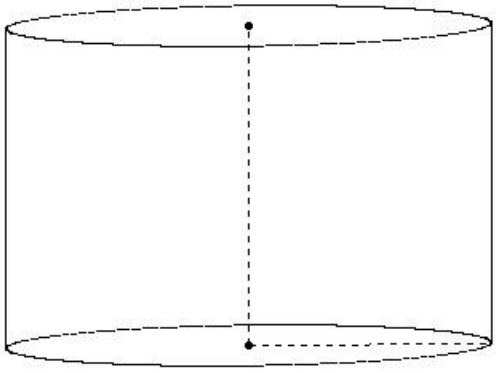
(i) 5.00 cm (ii) 15.00 cm (iii) 13.00 cm (iv) 7.00 cm (v) 10.00 cm

18. If the radius of a cylinder is 18.00 cm and L.S.A is 905.14 sq.cm, its base area is



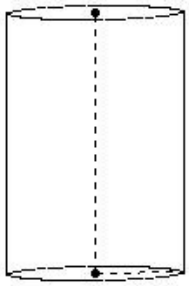
(i) 798.29 sq.cm (ii) 1188.29 sq.cm (iii) 1018.29 sq.cm (iv) 1278.29 sq.cm (v) 998.29 sq.cm

19. If the radius of a cylinder is 15.00 cm and L.S.A is 1885.71 sq.cm, its T.S.A is



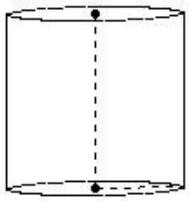
(i) 3150.00 sq.cm (ii) 3300.00 sq.cm (iii) 3440.00 sq.cm (iv) 3480.00 sq.cm (v) 3130.00 sq.cm

20. If the radius of a cylinder is 5.00 cm and L.S.A is 471.43 sq.cm, its volume is



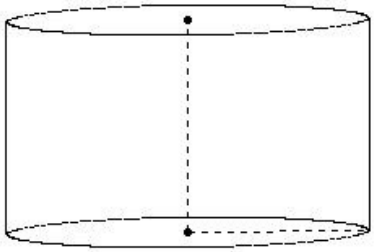
(i) 1098.57 cu.cm (ii) 1308.57 cu.cm (iii) 1328.57 cu.cm (iv) 1178.57 cu.cm (v) 948.57 cu.cm

21. If the radius of a cylinder is 5.00 cm and T.S.A is 471.43 sq.cm, its height is



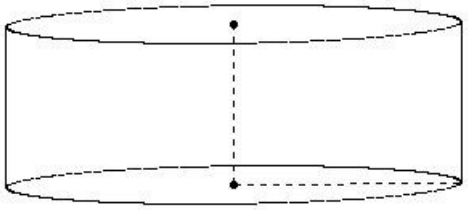
(i) 13.00 cm (ii) 7.00 cm (iii) 10.00 cm (iv) 5.00 cm (v) 15.00 cm

22. If the radius of a cylinder is 11.00 cm and T.S.A is 1659.43 sq.cm, its base area is



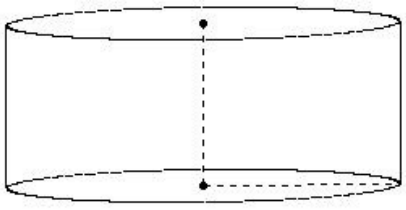
(i) 363.29 sq.cm (ii) 365.29 sq.cm (iii) 380.29 sq.cm (iv) 397.29 sq.cm (v) 394.29 sq.cm

23. If the radius of a cylinder is 14.00 cm and T.S.A is 2112.00 sq.cm, its L.S.A. is



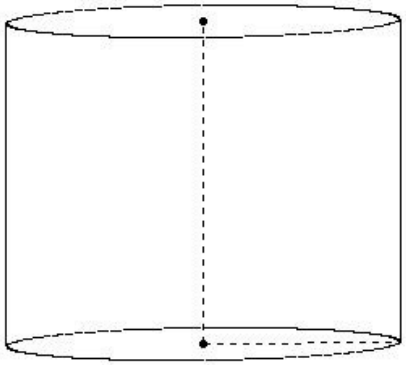
(i) 880.00 sq.cm (ii) 876.00 sq.cm (iii) 867.00 sq.cm (iv) 895.00 sq.cm (v) 892.00 sq.cm

24. If the radius of a cylinder is 12.00 cm and T.S.A is 1659.43 sq.cm, its volume is



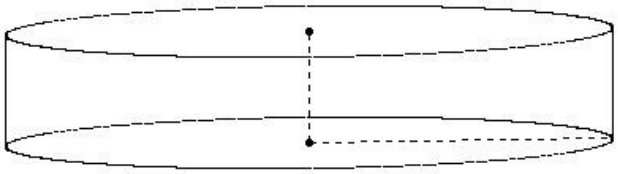
(i) 4355.71 cu.cm (ii) 4525.71 cu.cm (iii) 4685.71 cu.cm (iv) 4375.71 cu.cm (v) 4645.71 cu.cm

25. If the radius of a cylinder is 12.00 cm and volume is 9051.43 cu.cm, its height is



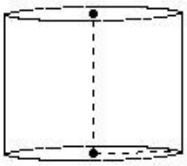
(i) 23.00 cm (ii) 20.00 cm (iii) 17.00 cm (iv) 25.00 cm (v) 15.00 cm

26. If the radius of a cylinder is 19.00 cm and volume is 7942.00 cu.cm, its base area is



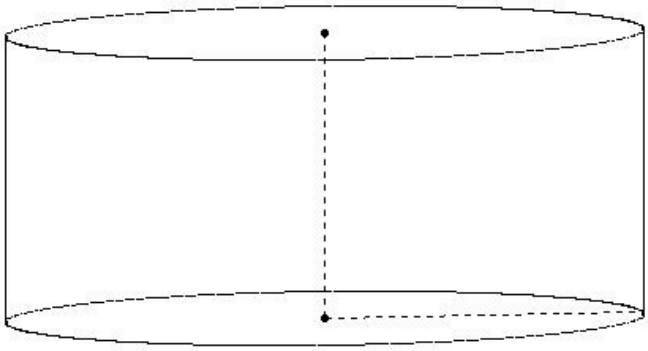
(i) 854.57 sq.cm (ii) 1314.57 sq.cm (iii) 1134.57 sq.cm (iv) 1294.57 sq.cm (v) 1074.57 sq.cm

27. If the radius of a cylinder is 5.00 cm and volume is 628.57 cu.cm, its L.S.A. is



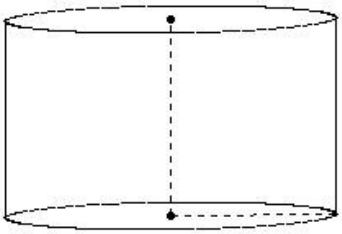
(i) 234.43 sq.cm (ii) 251.43 sq.cm (iii) 265.43 sq.cm (iv) 278.43 sq.cm (v) 246.43 sq.cm

28. If the radius of a cylinder is 20.00 cm and volume is 22628.57 cu.cm, its T.S.A is



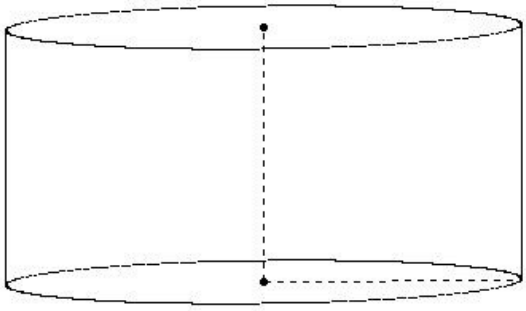
(i) 4777.14 sq.cm (ii) 4637.14 sq.cm (iii) 4827.14 sq.cm (iv) 4957.14 sq.cm

29. If the height of a cylinder is 12.00 cm and base area is 314.29 sq.cm, its radius is



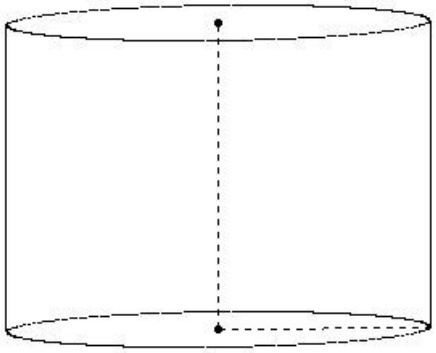
(i) 15.00 cm (ii) 5.00 cm (iii) 13.00 cm (iv) 10.00 cm (v) 7.00 cm

30. If the height of a cylinder is 16.00 cm and base area is 804.57 sq.cm, its L.S.A. is



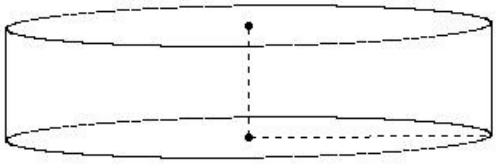
(i) 1439.14 sq.cm (ii) 1349.14 sq.cm (iii) 1859.14 sq.cm (iv) 1739.14 sq.cm (v) 1609.14 sq.cm

31. If the height of a cylinder is 19.00 cm and base area is 531.14 sq.cm, its T.S.A is



(i) 2614.86 sq.cm (ii) 2664.86 sq.cm (iii) 2454.86 sq.cm (iv) 2384.86 sq.cm (v) 2794.86 sq.cm

32. If the height of a cylinder is 7.00 cm and base area is 707.14 sq.cm, its volume is



(i) 4950.00 cu.cm (ii) 4830.00 cu.cm (iii) 4800.00 cu.cm (iv) 5170.00 cu.cm (v) 5120.00 cu.cm

33. A well of diameter 17.00 m is dug to a depth of 12.00 m and the soil from digging is evenly spread out to form a platform of base dimensions 19.00 m×24.00 m . Find the height of the platform

(i) 7.98 m (ii) 6.98 m (iii) 3.98 m (iv) 4.98 m (v) 5.98 m

34. A well of diameter 17.00 m is dug to a depth of 13.00 m . The soil taken out of it has been spread evenly all around it in the shape of a circular ring of width 10m to form an embankment. Find the height of the embankment.

(i) 3.48 m (ii) 5.48 m (iii) 1.48 m (iv) 4.48 m (v) 2.48 m

35. A copper sphere having a radius of 9.00 cm is melted and drawn into a cylindrical wire of radius 0.30 cm. Calculate the length of the wire.

(i) 103.00 m (ii) 130.00 m (iii) 85.00 m (iv) 108.00 m (v) 126.00 m

36. A copper rod of diameter 1.00 cm and length 14.00 cm is drawn into a wire of length 14.00 m of uniform thickness. Find the thickness of the wire.

(i) $\frac{1}{5}$ cm (ii) $\frac{1}{20}$ cm (iii) 0 cm (iv) $\frac{1}{10}$ cm (v) $\frac{3}{20}$ cm

37. A farmer connects a pipe of internal diameter 90 cm from a canal into a cylindrical tank in his field, which is 18 m in diameter and 5 m deep. If water flows through the pipe at the rate of 4 kmph, in how much time will the tank be filled ?

(i) 35.00 min (ii) 27.00 min (iii) 30.00 min (iv) 33.00 min (v) 25.00 min

Assignment Key

1) (i)	2) (i)	3) (ii)	4) (iv)	5) (ii)	6) (v)
7) (iii)	8) (ii)	9) (i)	10) (iii)	11) (ii)	12) (i)
13) (iii)	14) (iii)	15) (iv)	16) (ii)	17) (v)	18) (iii)
19) (ii)	20) (iv)	21) (iii)	22) (iii)	23) (i)	24) (ii)
25) (ii)	26) (iii)	27) (ii)	28) (i)	29) (iv)	30) (v)
31) (i)	32) (i)	33) (v)	34) (i)	35) (iv)	36) (ii)
37) (iii)					

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