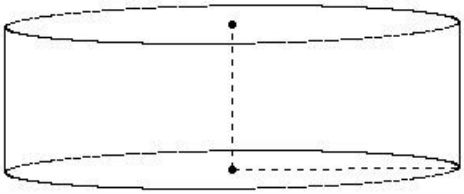
EduSahara™ Assignment

Name : Cylinder

Chapter : Volume and Surface Area of Solids

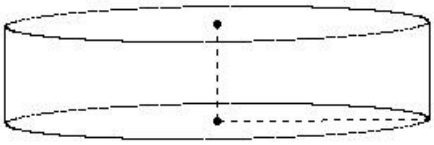
Grade : ICSE Grade IX

1. If the height of a cylinder is 9.00 cm and L.S.A is 792.00 sq.cm, its radius is



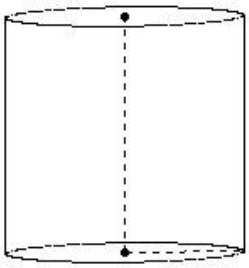
(i) 9.00 cm (ii) 14.00 cm (iii) 11.00 cm (iv) 19.00 cm (v) 17.00 cm

2. If the height of a cylinder is 6.00 cm and L.S.A is 490.29 sq.cm, its base area is



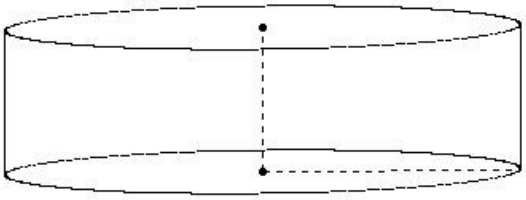
(i) 508.14 sq.cm (ii) 553.14 sq.cm (iii) 514.14 sq.cm (iv) 531.14 sq.cm (v) 536.14 sq.cm

3. If the height of a cylinder is 14.00 cm and L.S.A is 616.00 sq.cm, its T.S.A is



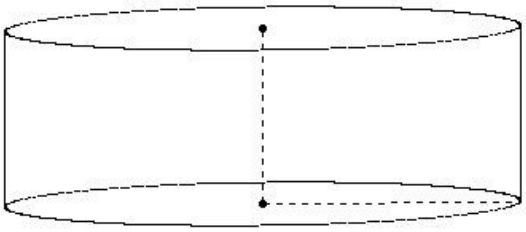
(i) 912.00 sq.cm (ii) 942.00 sq.cm (iii) 938.00 sq.cm (iv) 899.00 sq.cm (v) 924.00 sq.cm

4. If the height of a cylinder is 9.00 cm and L.S.A is 905.14 sq.cm, its volume is



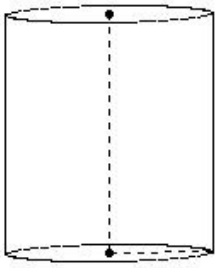
(i) 7241.14 cu.cm (ii) 7201.14 cu.cm (iii) 7381.14 cu.cm (iv) 6961.14 cu.cm (v) 7461.14 cu.cm

5. If the height of a cylinder is 11.00 cm and T.S.A is 2715.43 sq.cm, its radius is



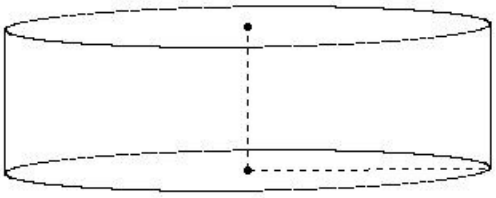
(i) 16.00 cm (ii) 21.00 cm (iii) 11.00 cm (iv) 13.00 cm (v) 19.00 cm

6. If the height of a cylinder is 14.00 cm and T.S.A is 754.29 sq.cm, its base area is



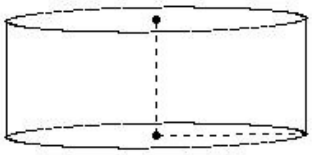
(i) 109.14 sq.cm (ii) 101.14 sq.cm (iii) 113.14 sq.cm (iv) 126.14 sq.cm (v) 127.14 sq.cm

7. If the height of a cylinder is 9.00 cm and T.S.A is 2262.86 sq.cm, its L.S.A. is



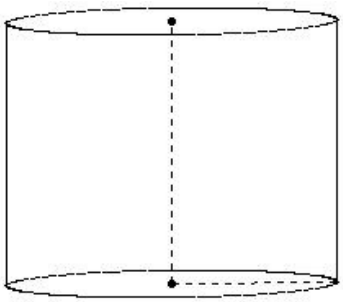
(i) 848.57 sq.cm (ii) 843.57 sq.cm (iii) 875.57 sq.cm (iv) 822.57 sq.cm (v) 856.57 sq.cm

8. If the height of a cylinder is 7.00 cm and T.S.A is 905.14 sq.cm, its volume is



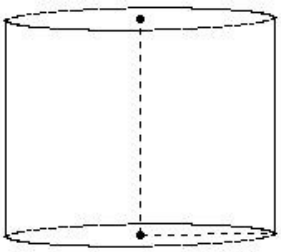
(i) 1782.00 cu.cm (ii) 1752.00 cu.cm (iii) 1542.00 cu.cm (iv) 1922.00 cu.cm (v) 1802.00 cu.cm

9. If the height of a cylinder is 16.00 cm and volume is 5028.57 cu.cm, its radius is



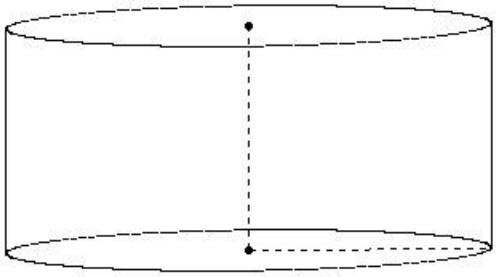
(i) 7.00 cm (ii) 5.00 cm (iii) 10.00 cm (iv) 15.00 cm (v) 13.00 cm

10. If the height of a cylinder is 13.00 cm and volume is 2614.86 cu.cm, its base area is



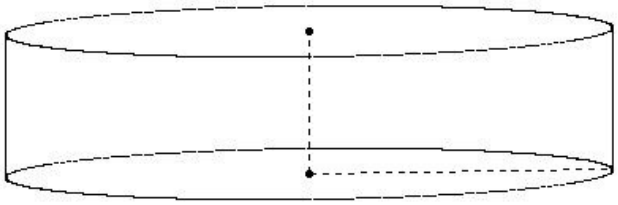
(i) 227.14 sq.cm (ii) 207.14 sq.cm (iii) 201.14 sq.cm (iv) 184.14 sq.cm

11. If the height of a cylinder is 14.00 cm and volume is 9900.00 cu.cm, its L.S.A. is



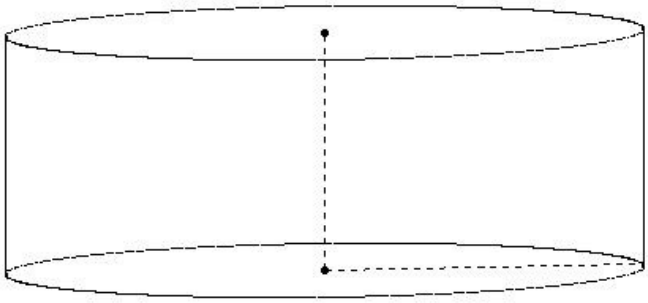
(i) 1320.00 sq.cm (ii) 1360.00 sq.cm (iii) 1590.00 sq.cm (iv) 1070.00 sq.cm (v) 1300.00 sq.cm

12. If the height of a cylinder is 9.00 cm and volume is 10211.14 cu.cm, its T.S.A is



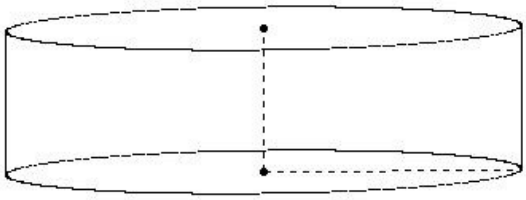
(i) 3474.00 sq.cm (ii) 3294.00 sq.cm (iii) 3344.00 sq.cm (iv) 3124.00 sq.cm (v) 3504.00 sq.cm

13. If the radius of a cylinder is 20.00 cm and height is 15.00 cm, its base area is



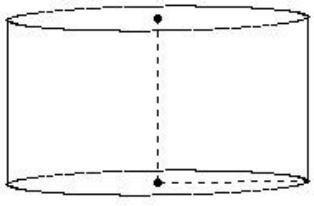
(i) 1077.14 sq.cm (ii) 1257.14 sq.cm (iii) 1307.14 sq.cm (iv) 997.14 sq.cm (v) 1497.14 sq.cm

14. If the radius of a cylinder is 16.00 cm and height is 9.00 cm, its L.S.A. is



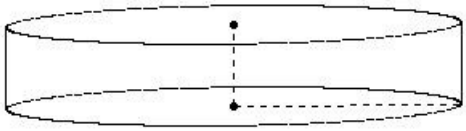
(i) 882.14 sq.cm (ii) 905.14 sq.cm (iii) 891.14 sq.cm (iv) 917.14 sq.cm

15. If the radius of a cylinder is 9.00 cm and height is 10.00 cm, its T.S.A is



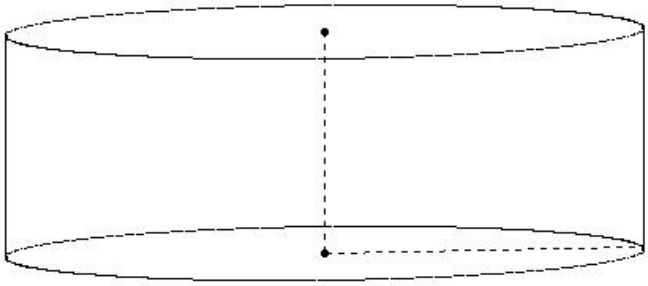
(i) 1194.86 sq.cm (ii) 1044.86 sq.cm (iii) 1224.86 sq.cm (iv) 1074.86 sq.cm (v) 904.86 sq.cm

16. If the radius of a cylinder is 14.00 cm and height is 5.00 cm, its volume is



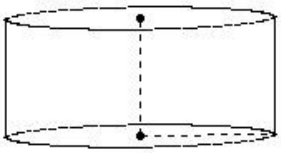
(i) 3320.00 cu.cm (ii) 3080.00 cu.cm (iii) 2830.00 cu.cm (iv) 3040.00 cu.cm (v) 3160.00 cu.cm

17. If the radius of a cylinder is 20.00 cm and L.S.A is 1760.00 sq.cm, its height is



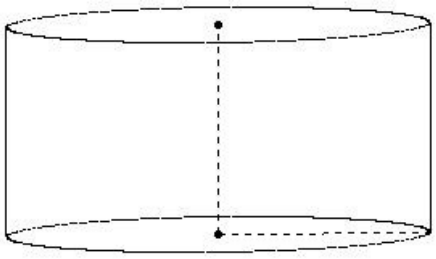
(i) 17.00 cm (ii) 14.00 cm (iii) 9.00 cm (iv) 11.00 cm (v) 19.00 cm

18. If the radius of a cylinder is 8.00 cm and L.S.A is 352.00 sq.cm, its base area is



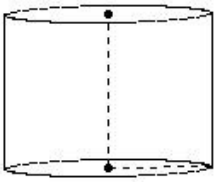
(i) 195.14 sq.cm (ii) 217.14 sq.cm (iii) 223.14 sq.cm (iv) 201.14 sq.cm (v) 188.14 sq.cm

19. If the radius of a cylinder is 13.00 cm and L.S.A is 1062.29 sq.cm, its T.S.A is



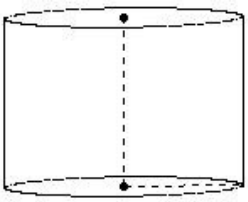
(i) 2204.57 sq.cm (ii) 1984.57 sq.cm (iii) 2094.57 sq.cm (iv) 2294.57 sq.cm (v) 2124.57 sq.cm

20. If the radius of a cylinder is 6.00 cm and L.S.A is 339.43 sq.cm, its volume is



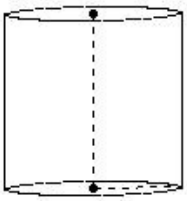
(i) 1158.29 cu.cm (ii) 1278.29 cu.cm (iii) 768.29 cu.cm (iv) 948.29 cu.cm (v) 1018.29 cu.cm

21. If the radius of a cylinder is 7.00 cm and T.S.A is 748.00 sq.cm, its height is



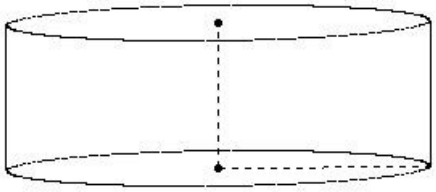
(i) 15.00 cm (ii) 10.00 cm (iii) 5.00 cm (iv) 13.00 cm (v) 7.00 cm

22. If the radius of a cylinder is 5.00 cm and T.S.A is 471.43 sq.cm, its base area is



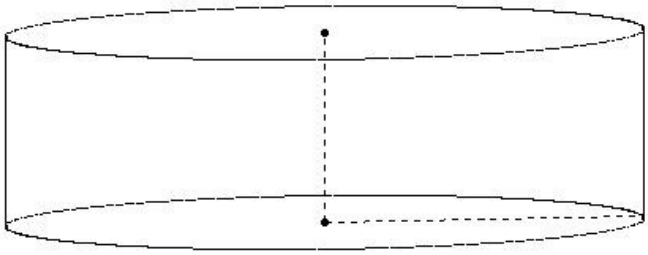
(i) 75.57 sq.cm (ii) 73.57 sq.cm (iii) 78.57 sq.cm (iv) 83.57 sq.cm (v) 81.57 sq.cm

23. If the radius of a cylinder is 13.00 cm and T.S.A is 1797.71 sq.cm, its L.S.A. is



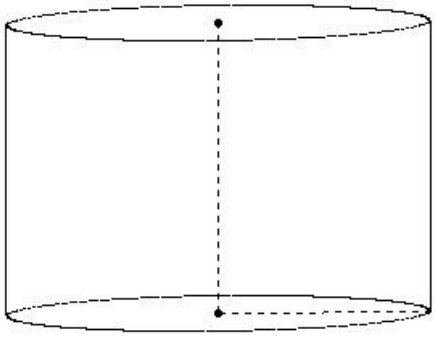
(i) 735.43 sq.cm (ii) 739.43 sq.cm (iii) 750.43 sq.cm (iv) 729.43 sq.cm (v) 717.43 sq.cm

24. If the radius of a cylinder is 20.00 cm and T.S.A is 4022.86 sq.cm, its volume is



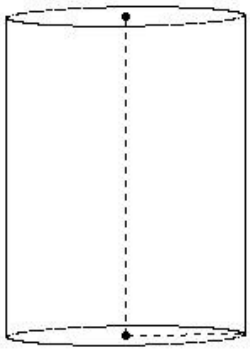
(i) 13685.71 cu.cm (ii) 16285.71 cu.cm (iii) 15385.71 cu.cm (iv) 13385.71 cu.cm (v) 15085.71 cu.cm

25. If the radius of a cylinder is 13.00 cm and volume is 9560.57 cu.cm, its height is



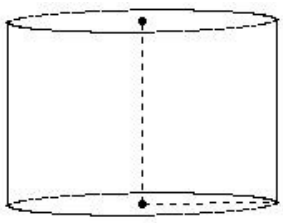
(i) 23.00 cm (ii) 13.00 cm (iii) 15.00 cm (iv) 21.00 cm (v) 18.00 cm

26. If the radius of a cylinder is 7.00 cm and volume is 2926.00 cu.cm, its base area is



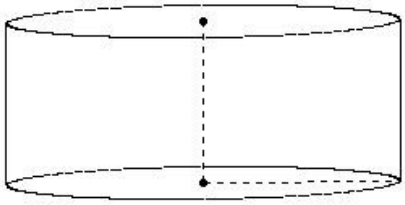
(i) 137.00 sq.cm (ii) 136.00 sq.cm (iii) 169.00 sq.cm (iv) 168.00 sq.cm (v) 154.00 sq.cm

27. If the radius of a cylinder is 8.00 cm and volume is 2212.57 cu.cm, its L.S.A. is



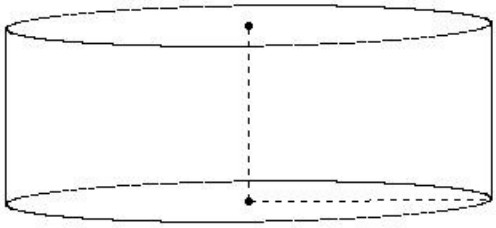
(i) 528.14 sq.cm (ii) 553.14 sq.cm (iii) 541.14 sq.cm (iv) 581.14 sq.cm (v) 569.14 sq.cm

28. If the radius of a cylinder is 12.00 cm and volume is 4525.71 cu.cm, its T.S.A is



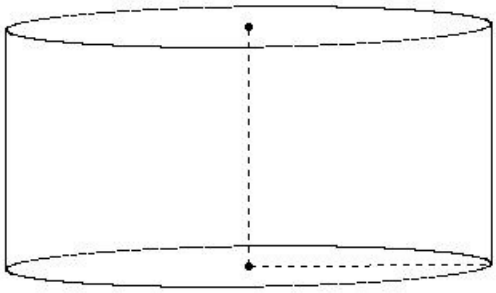
(i) 1629.43 sq.cm (ii) 1379.43 sq.cm (iii) 1659.43 sq.cm (iv) 1779.43 sq.cm (v) 1829.43 sq.cm

29. If the height of a cylinder is 11.00 cm and base area is 707.14 sq.cm, its radius is



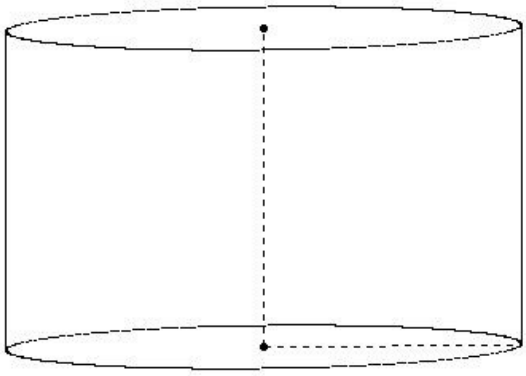
(i) 20.00 cm (ii) 18.00 cm (iii) 10.00 cm (iv) 15.00 cm (v) 12.00 cm

30. If the height of a cylinder is 15.00 cm and base area is 707.14 sq.cm, its L.S.A. is



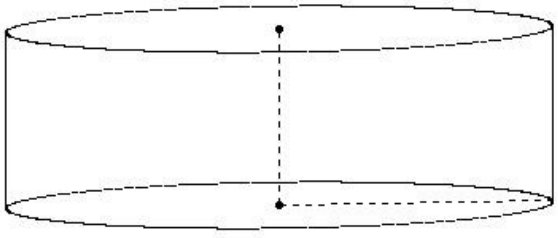
(i) 1664.29 sq.cm (ii) 1554.29 sq.cm (iii) 1294.29 sq.cm (iv) 1244.29 sq.cm (v) 1414.29 sq.cm

31. If the height of a cylinder is 20.00 cm and base area is 804.57 sq.cm, its T.S.A is



(i) 3900.57 sq.cm (ii) 3540.57 sq.cm (iii) 3620.57 sq.cm (iv) 3760.57 sq.cm (v) 3360.57 sq.cm

32. If the height of a cylinder is 11.00 cm and base area is 908.29 sq.cm, its volume is



(i) 10071.14 cu.cm (ii) 9731.14 cu.cm (iii) 9991.14 cu.cm (iv) 9861.14 cu.cm (v) 10241.14 cu.cm

33. A well of diameter 19.00 m is dug to a depth of 19.00 m and the soil from digging is evenly spread out to form a platform of base dimensions 24.00 m×30.00 m . Find the height of the platform

(i) 5.49 m (ii) 9.49 m (iii) 6.49 m (iv) 8.49 m (v) 7.49 m

34. A well of diameter 10.00 m is dug to a depth of 10.00 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) 3.25 m (ii) 0.25 m (iii) 9.25 m (iv) 1.25 m (v) 2.25 m

35. A copper sphere having a radius of 6.00 cm is melted and drawn into a cylindrical wire of radius 0.40 cm. Calculate the length of the wire.

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

36. A copper rod of diameter 1.20 cm and length 12.00 cm is drawn into a wire of length 69.12 m of uniform thickness. Find the thickness of the wire.

(i) $\frac{1}{20}$ cm (ii) $\frac{1}{40}$ cm (iii) $\frac{3}{40}$ cm (iv) 0 cm (v) $\frac{1}{10}$ cm

37. A farmer connects a pipe of internal diameter 56 cm from a canal into a cylindrical tank in his field, which is 14 m in diameter and 4 m deep.
If water flows through the pipe at the rate of $\frac{25}{9}$ kmph , in how much time will the tank be filled ?

(i) 59.00 min (ii) 51.00 min (iii) 49.00 min (iv) 57.00 min (v) 54.00 min

Assignment Key

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