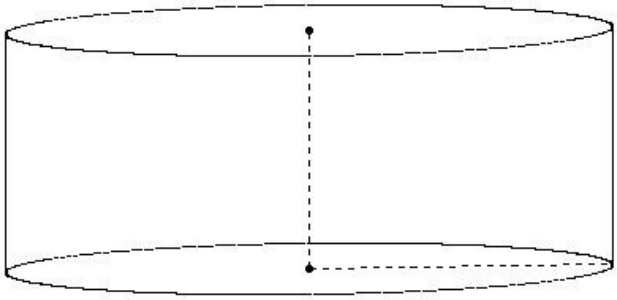
EduSahara™ Assignment

Name : Cylinder

Chapter : Volume and Surface Area of Solids

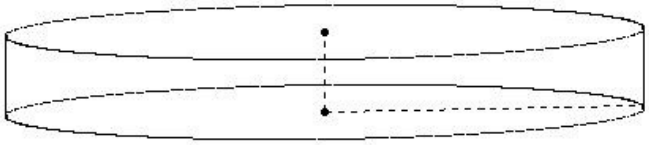
Grade : ICSE Grade IX

1. If the height of a cylinder is 15.00 cm and L.S.A is 1791.43 sq.cm, its radius is



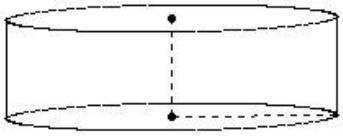
(i) 16.00 cm (ii) 19.00 cm (iii) 22.00 cm (iv) 14.00 cm (v) 24.00 cm

2. If the height of a cylinder is 5.00 cm and L.S.A is 628.57 sq.cm, its base area is



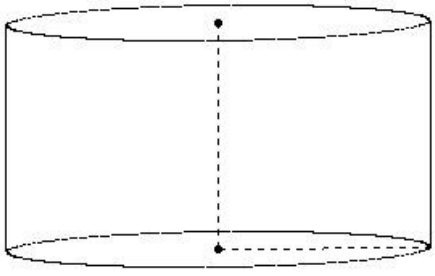
(i) 1517.14 sq.cm (ii) 1007.14 sq.cm (iii) 1257.14 sq.cm (iv) 1177.14 sq.cm (v) 1277.14 sq.cm

3. If the height of a cylinder is 6.00 cm and L.S.A is 377.14 sq.cm, its T.S.A is



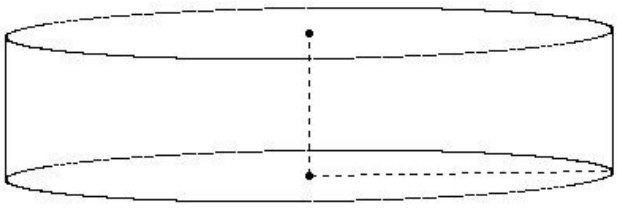
(i) 1005.71 sq.cm (ii) 1135.71 sq.cm (iii) 825.71 sq.cm (iv) 1265.71 sq.cm

4. If the height of a cylinder is 14.00 cm and L.S.A is 1144.00 sq.cm, its volume is



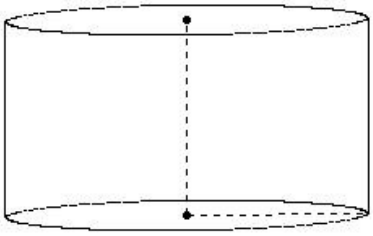
(i) 7706.00 cu.cm (ii) 7356.00 cu.cm (iii) 7456.00 cu.cm (iv) 7436.00 cu.cm (v) 7206.00 cu.cm

5. If the height of a cylinder is 9.00 cm and T.S.A is 3344.00 sq.cm, its radius is



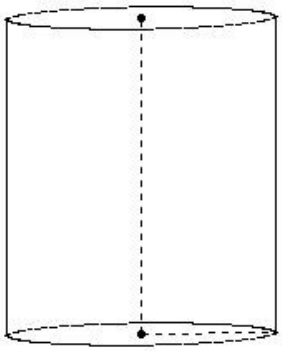
(i) 19.00 cm (ii) 24.00 cm (iii) 14.00 cm (iv) 16.00 cm (v) 22.00 cm

6. If the height of a cylinder is 12.00 cm and T.S.A is 1590.29 sq.cm, its base area is



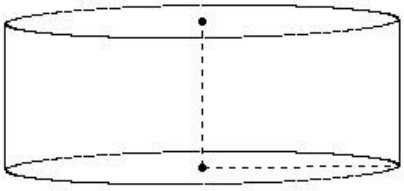
(i) 356.29 sq.cm (ii) 403.29 sq.cm (iii) 376.29 sq.cm (iv) 380.29 sq.cm (v) 397.29 sq.cm

7. If the height of a cylinder is 19.00 cm and T.S.A is 1357.71 sq.cm, its L.S.A. is



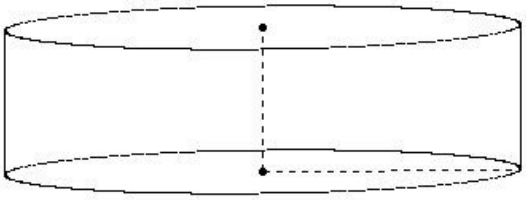
(i) 973.43 sq.cm (ii) 970.43 sq.cm (iii) 943.43 sq.cm (iv) 951.43 sq.cm (v) 955.43 sq.cm

8. If the height of a cylinder is 9.00 cm and T.S.A is 1584.00 sq.cm, its volume is



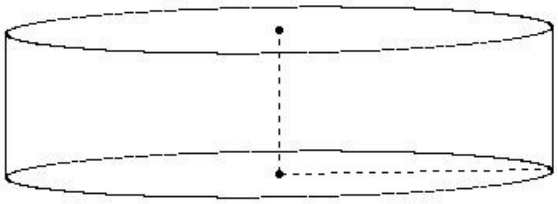
(i) 4243.14 cu.cm (ii) 4193.14 cu.cm (iii) 3993.14 cu.cm (iv) 3843.14 cu.cm (v) 4073.14 cu.cm

9. If the height of a cylinder is 9.00 cm and volume is 7241.14 cu.cm, its radius is



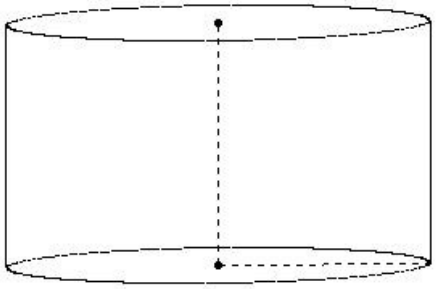
(i) 21.00 cm (ii) 11.00 cm (iii) 13.00 cm (iv) 19.00 cm (v) 16.00 cm

10. If the height of a cylinder is 9.00 cm and volume is 8174.57 cu.cm, its base area is



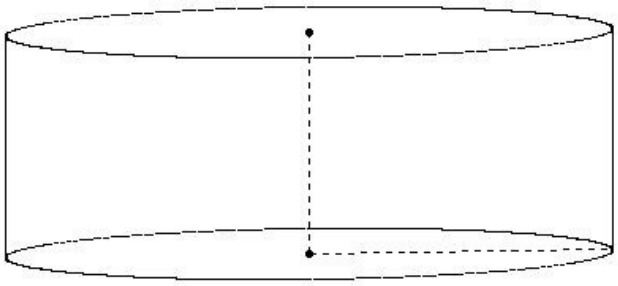
(i) 908.29 sq.cm (ii) 931.29 sq.cm (iii) 884.29 sq.cm (iv) 892.29 sq.cm (v) 923.29 sq.cm

11. If the height of a cylinder is 15.00 cm and volume is 7967.14 cu.cm, its L.S.A. is



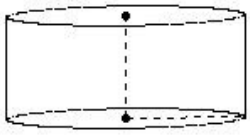
(i) 945.71 sq.cm (ii) 1175.71 sq.cm (iii) 1395.71 sq.cm (iv) 1225.71 sq.cm (v) 1285.71 sq.cm

12. If the height of a cylinder is 14.00 cm and volume is 15884.00 cu.cm, its T.S.A is



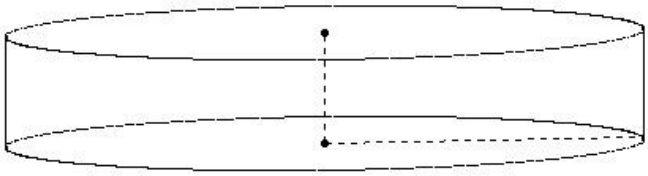
(i) 3681.14 sq.cm (ii) 3861.14 sq.cm (iii) 4121.14 sq.cm (iv) 3941.14 sq.cm (v) 4181.14 sq.cm

13. If the radius of a cylinder is 7.00 cm and height is 6.00 cm, its base area is



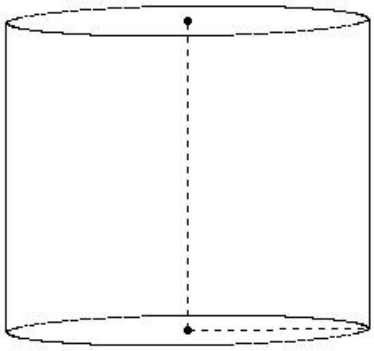
(i) 154.00 sq.cm (ii) 177.00 sq.cm (iii) 138.00 sq.cm (iv) 139.00 sq.cm (v) 162.00 sq.cm

14. If the radius of a cylinder is 20.00 cm and height is 7.00 cm, its L.S.A. is



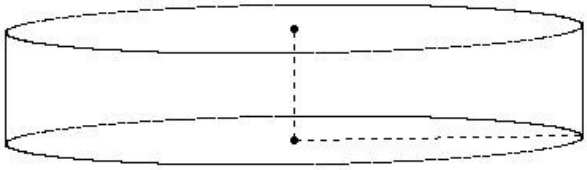
(i) 880.00 sq.cm (ii) 873.00 sq.cm (iii) 858.00 sq.cm (iv) 893.00 sq.cm (v) 894.00 sq.cm

15. If the radius of a cylinder is 11.00 cm and height is 19.00 cm, its T.S.A is



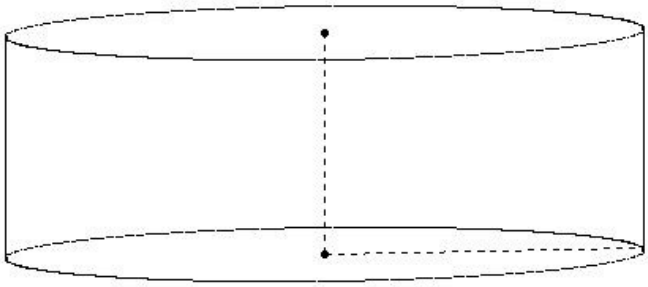
(i) 2074.29 sq.cm (ii) 1954.29 sq.cm (iii) 1934.29 sq.cm (iv) 2224.29 sq.cm (v) 2344.29 sq.cm

16. If the radius of a cylinder is 18.00 cm and height is 7.00 cm, its volume is



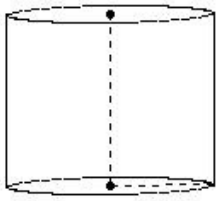
(i) 7128.00 cu.cm (ii) 7088.00 cu.cm (iii) 6908.00 cu.cm (iv) 7358.00 cu.cm (v) 7188.00 cu.cm

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



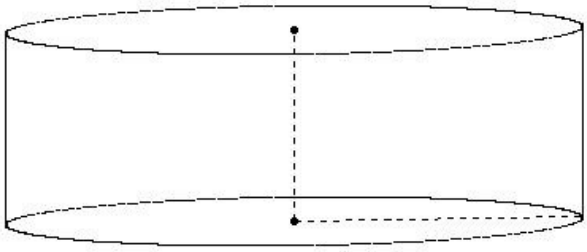
(i) 11.00 cm (ii) 19.00 cm (iii) 14.00 cm (iv) 9.00 cm (v) 17.00 cm

18. If the radius of a cylinder is 6.00 cm and L.S.A is 377.14 sq.cm, its base area is



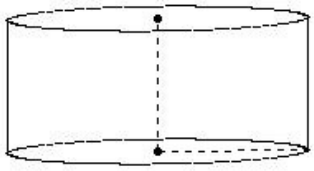
(i) 101.14 sq.cm (ii) 85.14 sq.cm (iii) 113.14 sq.cm (iv) 117.14 sq.cm (v) 140.14 sq.cm

19. If the radius of a cylinder is 18.00 cm and L.S.A is 1357.71 sq.cm, its T.S.A is



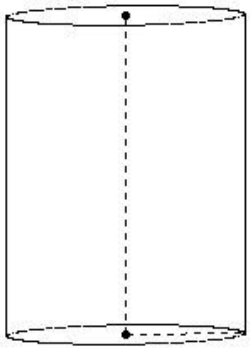
(i) 3374.29 sq.cm (ii) 3454.29 sq.cm (iii) 3214.29 sq.cm (iv) 3394.29 sq.cm (v) 3644.29 sq.cm

20. If the radius of a cylinder is 9.00 cm and L.S.A is 452.57 sq.cm, its volume is



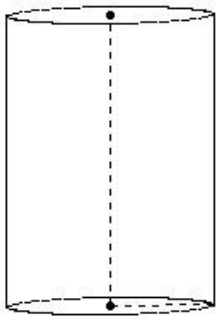
(i) 2106.57 cu.cm (ii) 1786.57 cu.cm (iii) 2036.57 cu.cm (iv) 1896.57 cu.cm (v) 2176.57 cu.cm

21. If the radius of a cylinder is 7.00 cm and T.S.A is 1144.00 sq.cm, its height is



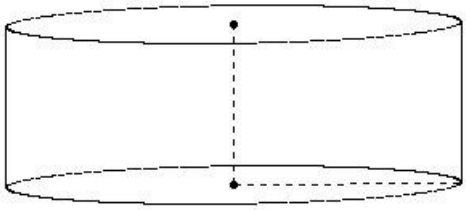
(i) 16.00 cm (ii) 24.00 cm (iii) 19.00 cm (iv) 22.00 cm (v) 14.00 cm

22. If the radius of a cylinder is 6.00 cm and T.S.A is 867.43 sq.cm, its base area is



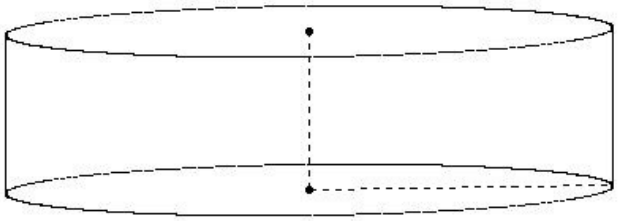
(i) 113.14 sq.cm (ii) 115.14 sq.cm (iii) 97.14 sq.cm (iv) 138.14 sq.cm

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



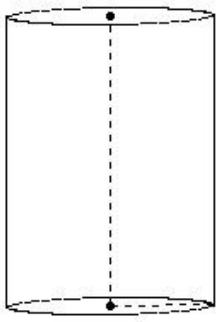
(i) 880.00 sq.cm (ii) 865.00 sq.cm (iii) 892.00 sq.cm (iv) 877.00 sq.cm (v) 908.00 sq.cm

24. If the radius of a cylinder is 19.00 cm and T.S.A is 3463.43 sq.cm, its volume is



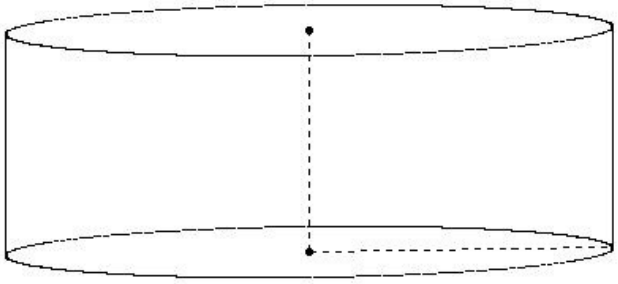
(i) 11145.71 cu.cm (ii) 8945.71 cu.cm (iii) 12845.71 cu.cm (iv) 12645.71 cu.cm (v) 11345.71 cu.cm

25. If the radius of a cylinder is 6.00 cm and volume is 1923.43 cu.cm, its height is



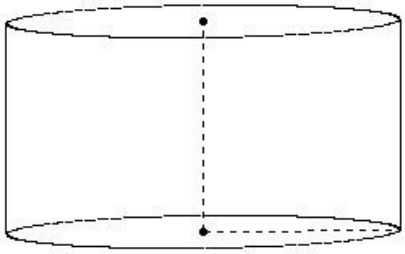
(i) 20.00 cm (ii) 17.00 cm (iii) 12.00 cm (iv) 22.00 cm (v) 14.00 cm

26. If the radius of a cylinder is 19.00 cm and volume is 15884.00 cu.cm, its base area is



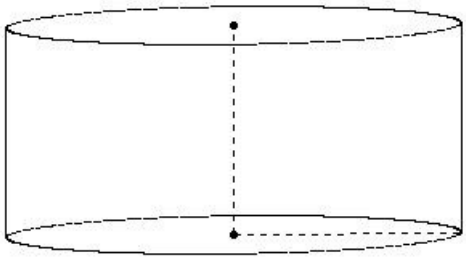
(i) 1134.57 sq.cm (ii) 1214.57 sq.cm (iii) 1014.57 sq.cm (iv) 1384.57 sq.cm (v) 994.57 sq.cm

27. If the radius of a cylinder is 12.00 cm and volume is 5883.43 cu.cm, its L.S.A. is



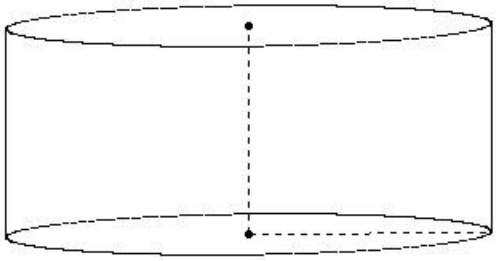
(i) 995.57 sq.cm (ii) 978.57 sq.cm (iii) 988.57 sq.cm (iv) 980.57 sq.cm (v) 953.57 sq.cm

28. If the radius of a cylinder is 14.00 cm and volume is 8008.00 cu.cm, its T.S.A is



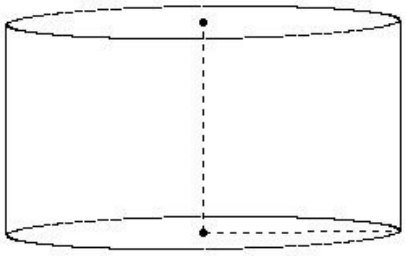
(i) 2376.00 sq.cm (ii) 2256.00 sq.cm (iii) 2536.00 sq.cm (iv) 2106.00 sq.cm (v) 2506.00 sq.cm

29. If the height of a cylinder is 13.00 cm and base area is 707.14 sq.cm, its radius is



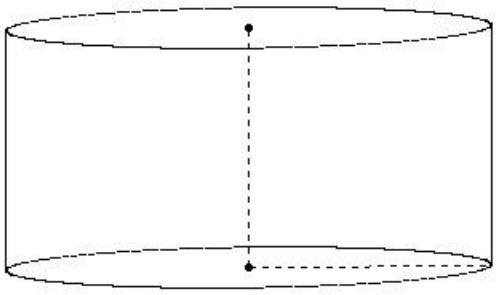
(i) 10.00 cm (ii) 18.00 cm (iii) 12.00 cm (iv) 20.00 cm (v) 15.00 cm

30. If the height of a cylinder is 13.00 cm and base area is 452.57 sq.cm, its L.S.A. is



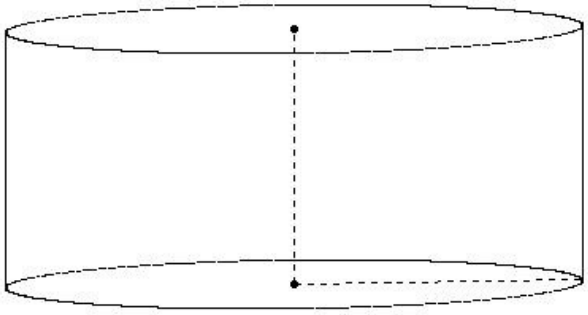
(i) 962.57 sq.cm (ii) 1006.57 sq.cm (iii) 980.57 sq.cm (iv) 958.57 sq.cm (v) 983.57 sq.cm

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



(i) 2958.57 sq.cm (ii) 2828.57 sq.cm (iii) 2688.57 sq.cm (iv) 2548.57 sq.cm (v) 2898.57 sq.cm

32. If the height of a cylinder is 16.00 cm and base area is 1018.29 sq.cm, its volume is



(i) 18692.57 cu.cm (ii) 16292.57 cu.cm (iii) 14892.57 cu.cm (iv) 16992.57 cu.cm (v) 16092.57 cu.cm

33. A well of diameter 12.00 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 22.00 m×25.00 m . Find the height of the platform

(i) 2.91 m (ii) 3.91 m (iii) 1.91 m (iv) 5.91 m (v) 4.91 m

34. A well of diameter 12.00 m is dug to a depth of 16.00 m . The soil taken out of it has been spread evenly all around it in the shape of a circular ring of width 5m to form an embankment. Find the height of the embankment.

(i) 5.78 m (ii) 7.78 m (iii) 4.78 m (iv) 6.78 m (v) 8.78 m

35. A copper sphere having a radius of 4.00 cm is melted and drawn into a cylindrical wire of radius 0.70 cm. Calculate the length of the wire.

(i) 9.74 m (ii) 1.74 m (iii) 3.74 m (iv) 2.74 m (v) 0.74 m

36. A copper rod of diameter 0.60 cm and length 20.00 cm is drawn into a wire of length 28.80 m of uniform thickness. Find the thickness of the wire.

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

37. A farmer connects a pipe of internal diameter 18 cm from a canal into a cylindrical tank in his field, which is 6 m in diameter and 3 m deep.
If water flows through the pipe at the rate of $\frac{100}{21}$ kmph , in how much time will the tank be filled ?

(i) 37.00 min (ii) 42.00 min (iii) 47.00 min (iv) 45.00 min (v) 39.00 min

Assignment Key

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