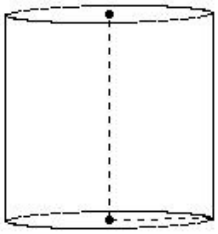
EduSahara™ Assignment

Name : Cylinder

Chapter : Volume and Surface Area of Solids

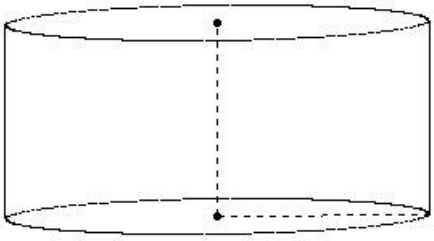
Grade : ICSE Grade IX

1. If the height of a cylinder is 12.00 cm and L.S.A is 452.57 sq.cm, its radius is



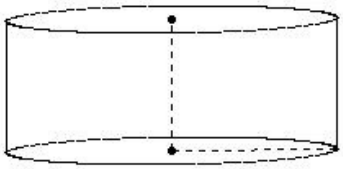
(i) 6.00 cm (ii) 7.00 cm (iii) 4.00 cm (iv) 5.00 cm (v) 8.00 cm

2. If the height of a cylinder is 12.00 cm and L.S.A is 980.57 sq.cm, its base area is



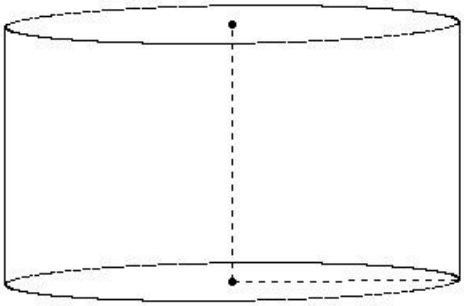
(i) 539.14 sq.cm (ii) 543.14 sq.cm (iii) 517.14 sq.cm (iv) 531.14 sq.cm (v) 514.14 sq.cm

3. If the height of a cylinder is 8.00 cm and L.S.A is 502.86 sq.cm, its T.S.A is



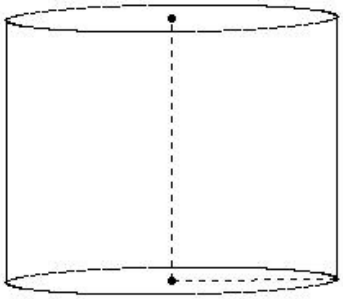
(i) 1131.43 sq.cm (ii) 1151.43 sq.cm (iii) 1011.43 sq.cm (iv) 1001.43 sq.cm (v) 1371.43 sq.cm

4. If the height of a cylinder is 16.00 cm and L.S.A is 1408.00 sq.cm, its volume is



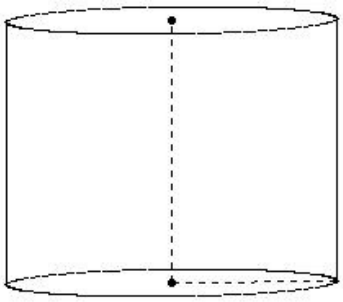
(i) 9936.00 cu.cm (ii) 9586.00 cu.cm (iii) 9856.00 cu.cm (iv) 10016.00 cu.cm (v) 9806.00 cu.cm

5. If the height of a cylinder is 16.00 cm and T.S.A is 1634.29 sq.cm, its radius is



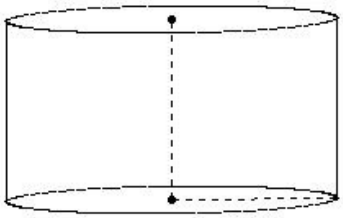
(i) 13.00 cm (ii) 15.00 cm (iii) 5.00 cm (iv) 10.00 cm (v) 7.00 cm

6. If the height of a cylinder is 16.00 cm and T.S.A is 1634.29 sq.cm, its base area is



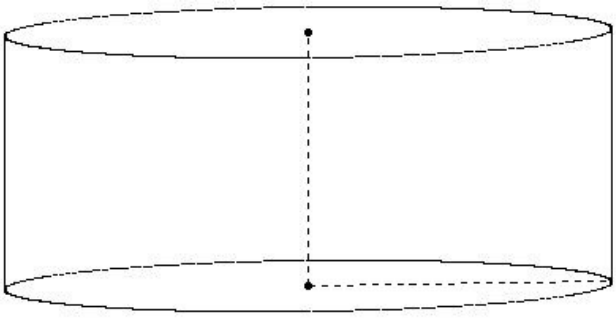
(i) 330.29 sq.cm (ii) 314.29 sq.cm (iii) 306.29 sq.cm (iv) 329.29 sq.cm (v) 298.29 sq.cm

7. If the height of a cylinder is 11.00 cm and T.S.A is 1320.00 sq.cm, its L.S.A. is



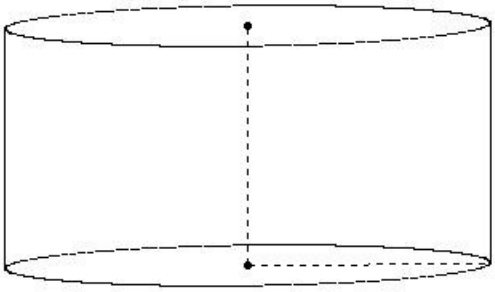
(i) 677.43 sq.cm (ii) 706.43 sq.cm (iii) 683.43 sq.cm (iv) 703.43 sq.cm (v) 691.43 sq.cm

8. If the height of a cylinder is 16.00 cm and T.S.A is 4180.00 sq.cm, its volume is



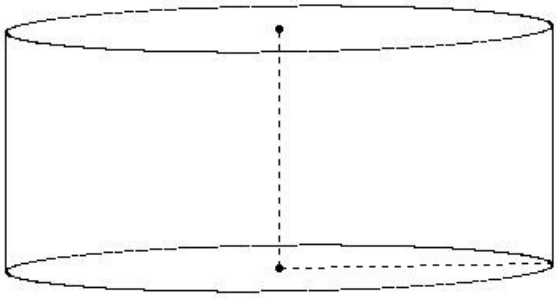
(i) 19753.14 cu.cm (ii) 18553.14 cu.cm (iii) 15353.14 cu.cm (iv) 18153.14 cu.cm (v) 17353.14 cu.cm

9. If the height of a cylinder is 15.00 cm and volume is 10607.14 cu.cm, its radius is



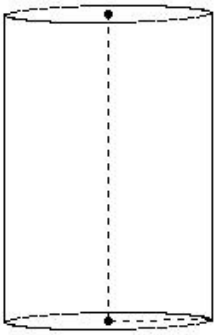
(i) 10.00 cm (ii) 18.00 cm (iii) 15.00 cm (iv) 12.00 cm (v) 20.00 cm

10. If the height of a cylinder is 15.00 cm and volume is 13624.29 cu.cm, its base area is



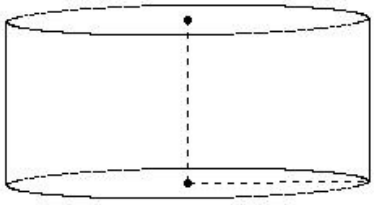
(i) 908.29 sq.cm (ii) 885.29 sq.cm (iii) 936.29 sq.cm (iv) 922.29 sq.cm (v) 905.29 sq.cm

11. If the height of a cylinder is 18.00 cm and volume is 2036.57 cu.cm, its L.S.A. is



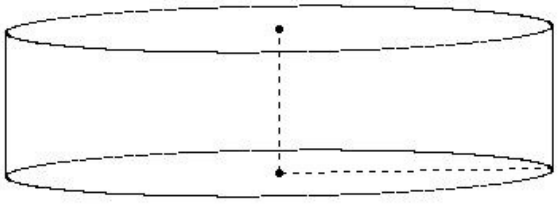
(i) 664.86 sq.cm (ii) 665.86 sq.cm (iii) 678.86 sq.cm (iv) 691.86 sq.cm (v) 693.86 sq.cm

12. If the height of a cylinder is 10.00 cm and volume is 3802.86 cu.cm, its T.S.A is



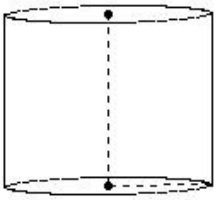
(i) 1232.00 sq.cm (ii) 1682.00 sq.cm (iii) 1452.00 sq.cm (iv) 1602.00 sq.cm (v) 1282.00 sq.cm

13. If the radius of a cylinder is 17.00 cm and height is 9.00 cm, its base area is



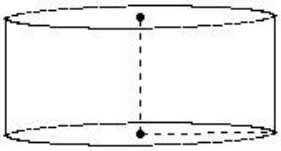
(i) 904.29 sq.cm (ii) 908.29 sq.cm (iii) 891.29 sq.cm (iv) 935.29 sq.cm (v) 926.29 sq.cm

14. If the radius of a cylinder is 6.00 cm and height is 10.00 cm, its L.S.A. is



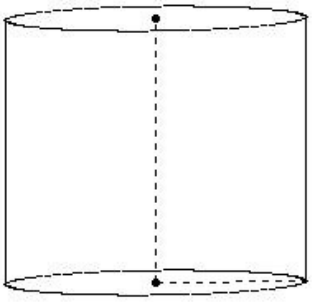
(i) 359.14 sq.cm (ii) 352.14 sq.cm (iii) 377.14 sq.cm (iv) 384.14 sq.cm (v) 401.14 sq.cm

15. If the radius of a cylinder is 8.00 cm and height is 7.00 cm, its T.S.A is



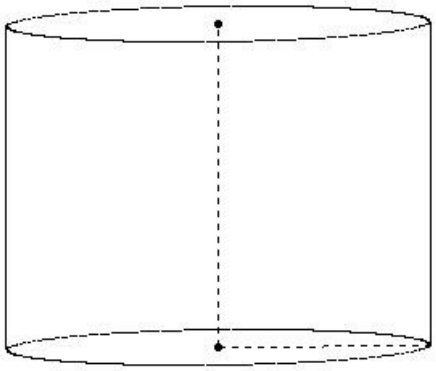
(i) 754.29 sq.cm (ii) 730.29 sq.cm (iii) 772.29 sq.cm (iv) 736.29 sq.cm (v) 761.29 sq.cm

16. If the radius of a cylinder is 9.00 cm and height is 16.00 cm, its volume is



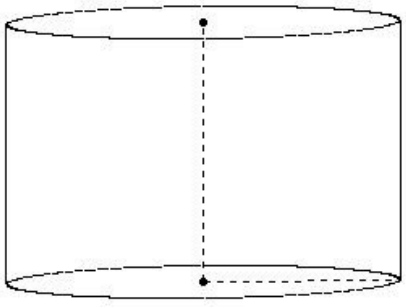
(i) 3803.14 cu.cm (ii) 3913.14 cu.cm (iii) 4073.14 cu.cm (iv) 4193.14 cu.cm (v) 4223.14 cu.cm

17. If the radius of a cylinder is 13.00 cm and L.S.A is 1634.29 sq.cm, its height is



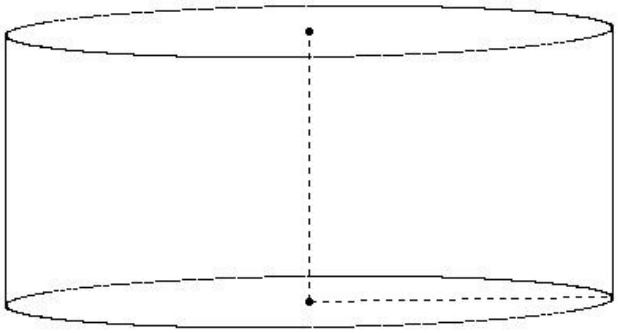
(i) 15.00 cm (ii) 23.00 cm (iii) 20.00 cm (iv) 17.00 cm (v) 25.00 cm

18. If the radius of a cylinder is 12.00 cm and L.S.A is 1206.86 sq.cm, its base area is



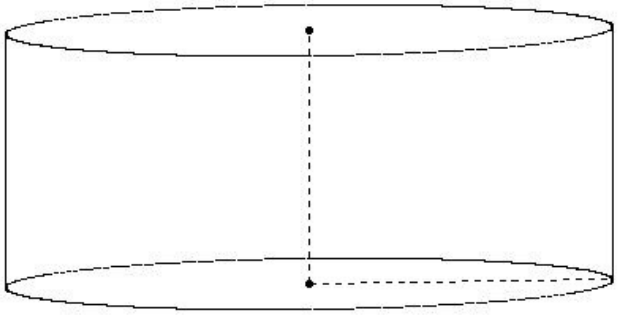
(i) 469.57 sq.cm (ii) 429.57 sq.cm (iii) 434.57 sq.cm (iv) 476.57 sq.cm (v) 452.57 sq.cm

19. If the radius of a cylinder is 19.00 cm and L.S.A is 2030.29 sq.cm, its T.S.A is



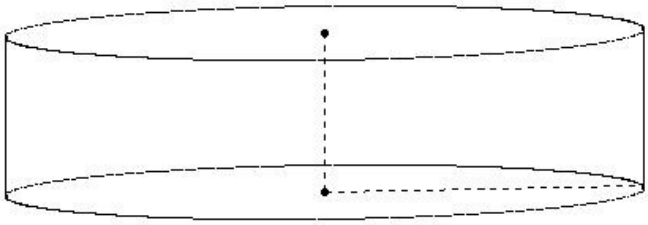
(i) 4579.43 sq.cm (ii) 4139.43 sq.cm (iii) 4369.43 sq.cm (iv) 4299.43 sq.cm

20. If the radius of a cylinder is 19.00 cm and L.S.A is 1910.86 sq.cm, its volume is



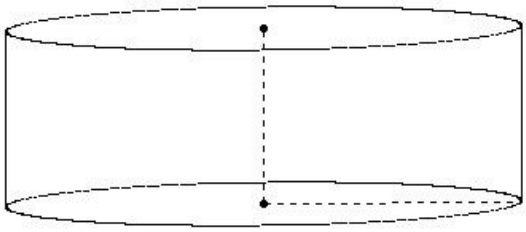
(i) 17553.14 cu.cm (ii) 20753.14 cu.cm (iii) 18153.14 cu.cm (iv) 16853.14 cu.cm (v) 19453.14 cu.cm

21. If the radius of a cylinder is 20.00 cm and T.S.A is 3771.43 sq.cm, its height is



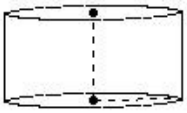
(i) 15.00 cm (ii) 5.00 cm (iii) 10.00 cm (iv) 13.00 cm (v) 7.00 cm

22. If the radius of a cylinder is 16.00 cm and T.S.A is 2715.43 sq.cm, its base area is



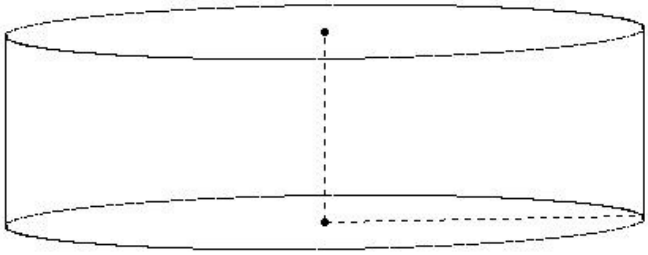
(i) 811.57 sq.cm (ii) 804.57 sq.cm (iii) 828.57 sq.cm (iv) 782.57 sq.cm (v) 787.57 sq.cm

23. If the radius of a cylinder is 5.00 cm and T.S.A is 314.29 sq.cm, its L.S.A. is



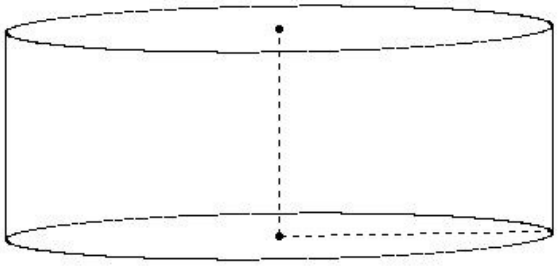
(i) 157.14 sq.cm (ii) 173.14 sq.cm (iii) 135.14 sq.cm (iv) 150.14 sq.cm (v) 182.14 sq.cm

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



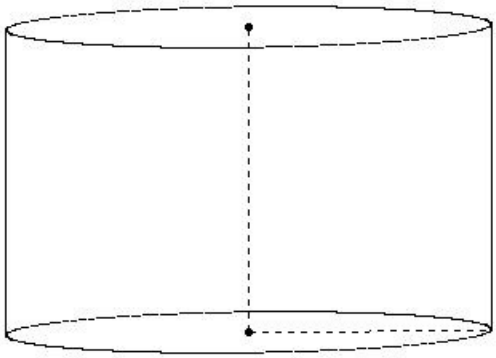
(i) 14885.71 cu.cm (ii) 17285.71 cu.cm (iii) 15085.71 cu.cm (iv) 15785.71 cu.cm (v) 13585.71 cu.cm

25. If the radius of a cylinder is 17.00 cm and volume is 11807.71 cu.cm, its height is



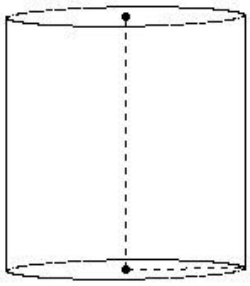
(i) 13.00 cm (ii) 10.00 cm (iii) 18.00 cm (iv) 8.00 cm (v) 16.00 cm

26. If the radius of a cylinder is 15.00 cm and volume is 13435.71 cu.cm, its base area is



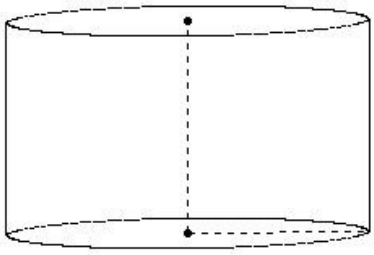
(i) 707.14 sq.cm (ii) 720.14 sq.cm (iii) 683.14 sq.cm (iv) 714.14 sq.cm (v) 695.14 sq.cm

27. If the radius of a cylinder is 7.00 cm and volume is 2310.00 cu.cm, its L.S.A. is



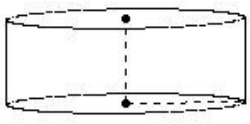
(i) 686.00 sq.cm (ii) 660.00 sq.cm (iii) 647.00 sq.cm (iv) 633.00 sq.cm (v) 668.00 sq.cm

28. If the radius of a cylinder is 11.00 cm and volume is 4943.71 cu.cm, its T.S.A is



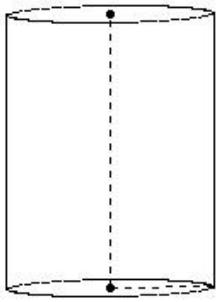
(i) 1819.43 sq.cm (ii) 1809.43 sq.cm (iii) 1479.43 sq.cm (iv) 1659.43 sq.cm (v) 1529.43 sq.cm

29. If the height of a cylinder is 5.00 cm and base area is 154.00 sq.cm, its radius is



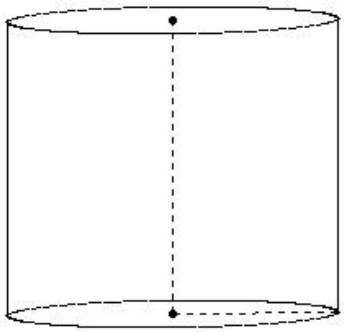
(i) 6.00 cm (ii) 9.00 cm (iii) 5.00 cm (iv) 7.00 cm (v) 8.00 cm

30. If the height of a cylinder is 16.00 cm and base area is 113.14 sq.cm, its L.S.A. is



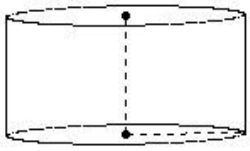
(i) 597.43 sq.cm (ii) 603.43 sq.cm (iii) 621.43 sq.cm (iv) 577.43 sq.cm (v) 630.43 sq.cm

31. If the height of a cylinder is 18.00 cm and base area is 314.29 sq.cm, its T.S.A is



(i) 1760.00 sq.cm (ii) 1690.00 sq.cm (iii) 1840.00 sq.cm (iv) 1500.00 sq.cm (v) 2010.00 sq.cm

32. If the height of a cylinder is 7.00 cm and base area is 154.00 sq.cm, its volume is



(i) 1108.00 cu.cm (ii) 798.00 cu.cm (iii) 958.00 cu.cm (iv) 1078.00 cu.cm (v) 1228.00 cu.cm

33. A well of diameter 20.00 m is dug to a depth of 17.00 m and the soil from digging is evenly spread out to form a platform of base dimensions 21.00 m×31.00 m . Find the height of the platform

(i) 9.21 m (ii) 6.21 m (iii) 8.21 m (iv) 10.21 m (v) 7.21 m

34. A well of diameter 15.00 m is dug to a depth of 11.00 m . The soil taken out of it has been spread evenly all around it in the shape of a circular ring of width 12m to form an embankment. Find the height of the embankment.

(i) 2.91 m (ii) 9.91 m (iii) 3.91 m (iv) 1.91 m (v) 0.91 m

35. A copper sphere having a radius of 4.00 cm is melted and drawn into a cylindrical wire of radius 0.30 cm. Calculate the length of the wire.

(i) 8.48 m (ii) 7.48 m (iii) 10.48 m (iv) 11.48 m (v) 9.48 m

36. A copper rod of diameter 0.40 cm and length 8.00 cm is drawn into a wire of length 15.68 m of uniform thickness. Find the thickness of the wire.

(i) $\frac{3}{70}$ cm (ii) $\frac{2}{35}$ cm (iii) $\frac{1}{35}$ cm (iv) 0 cm (v) $\frac{1}{70}$ cm

37. A farmer connects a pipe of internal diameter 24 cm from a canal into a cylindrical tank in his field, which is 8 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) 39.00 min (ii) 37.00 min (iii) 45.00 min (iv) 47.00 min (v) 42.00 min

Assignment Key

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