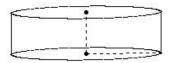
Name: Cylinder

Chapter: Volume and Surface Area of Solids

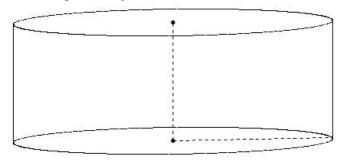
Grade: ICSE Grade IX

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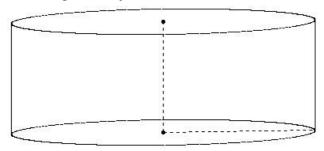
1. If the height of a cylinder is 5.00 cm and L.S.A is 282.86 sq.cm, its radius is



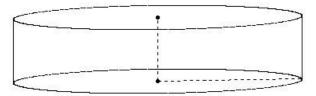
- (i) 8.00 cm (ii) 10.00 cm (iii) 11.00 cm (iv) 7.00 cm (v) 9.00 cm
- 2. If the height of a cylinder is 15.00 cm and L.S.A is 1885.71 sq.cm, its base area is



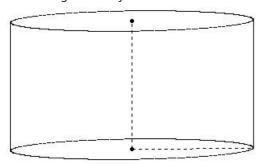
- (i) 1317.14 sq.cm (ii) 1257.14 sq.cm (iii) 987.14 sq.cm (iv) 1127.14 sq.cm (v) 1517.14 sq.cm
- 3. If the height of a cylinder is 14.00 cm and L.S.A is 1672.00 sq.cm, its T.S.A is



- (i) 3761.14 sq.cm (ii) 3991.14 sq.cm (iii) 3941.14 sq.cm (iv) 3781.14 sq.cm (v) 4071.14 sq.cm
- 4. If the height of a cylinder is 8.00 cm and L.S.A is 905.14 sq.cm, its volume is

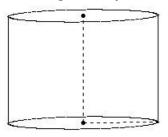


- (i) 8026.29 cu.cm (ii) 8146.29 cu.cm (iii) 8426.29 cu.cm (iv) 7876.29 cu.cm (v) 8206.29 cu.cm
- 5. If the height of a cylinder is 16.00 cm and T.S.A is 2922.86 sq.cm, its radius is



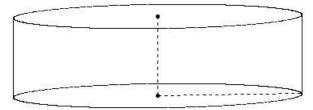
(i) 18.00 cm (ii) 20.00 cm (iii) 12.00 cm (iv) 10.00 cm (v) 15.00 cm

6. If the height of a cylinder is 13.00 cm and T.S.A is 1244.57 sq.cm, its base area is



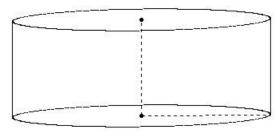
(i) 270.57 sq.cm (ii) 242.57 sq.cm (iii) 281.57 sq.cm (iv) 246.57 sq.cm (v) 254.57 sq.cm

7. If the height of a cylinder is $10.00\ \text{cm}$ and T.S.A is $3168.00\ \text{sq.cm}$, its L.S.A. is



(i) 1281.43 sq.cm (ii) 1301.43 sq.cm (iii) 911.43 sq.cm (iv) 1001.43 sq.cm (v) 1131.43 sq.cm

8. If the height of a cylinder is 12.00 cm and T.S.A is 2816.00 sq.cm, its volume is



(i) 9814.86 cu.cm (ii) 9484.86 cu.cm (iii) 9604.86 cu.cm (iv) 9654.86 cu.cm

9. If the height of a cylinder is 7.00 cm and volume is 1078.00 cu.cm, its radius is



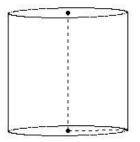
(i) 8.00 cm (ii) 7.00 cm (iii) 9.00 cm (iv) 6.00 cm (v) 5.00 cm

10. If the height of a cylinder is 10.00 cm and volume is 785.71 cu.cm, its base area is



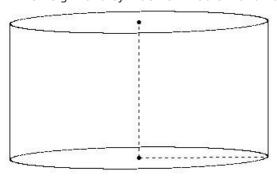
(i) 73.57 sq.cm (ii) 75.57 sq.cm (iii) 83.57 sq.cm (iv) 81.57 sq.cm (v) 78.57 sq.cm

11. If the height of a cylinder is 14.00 cm and volume is 2156.00 cu.cm, its L.S.A. is

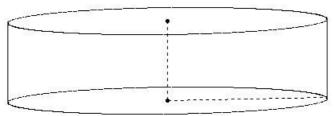


(i) 614.00 sq.cm (ii) 634.00 sq.cm (iii) 592.00 sq.cm (iv) 631.00 sq.cm (v) 616.00 sq.cm

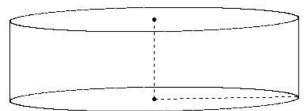
12. If the height of a cylinder is 17.00 cm and volume is 13677.71 cu.cm, its T.S.A is



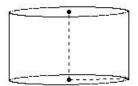
- (i) 3248.86 sq.cm (ii) 3068.86 sq.cm (iii) 3478.86 sq.cm (iv) 3318.86 sq.cm
- 13. If the radius of a cylinder is 20.00 cm and height is 10.00 cm, its base area is



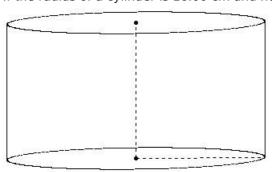
- (i) 1207.14 sq.cm (ii) 1387.14 sq.cm (iii) 1257.14 sq.cm (iv) 1027.14 sq.cm (v) 1437.14 sq.cm
- 14. If the radius of a cylinder is 18.00 cm and height is 10.00 cm, its L.S.A. is



- (i) 1011.43 sq.cm (ii) 961.43 sq.cm (iii) 1291.43 sq.cm (iv) 1301.43 sq.cm (v) 1131.43 sq.cm
- 15. If the radius of a cylinder is 7.00 cm and height is 8.00 cm, its T.S.A is

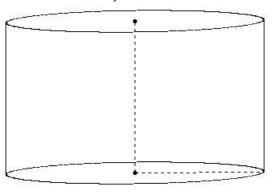


- (i) 653.00 sq.cm (ii) 678.00 sq.cm (iii) 666.00 sq.cm (iv) 647.00 sq.cm (v) 660.00 sq.cm
- 16. If the radius of a cylinder is 16.00 cm and height is 17.00 cm, its volume is

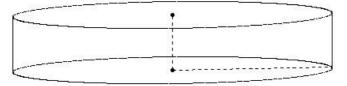


(i) 13877.71 cu.cm (ii) 15977.71 cu.cm (iii) 13177.71 cu.cm (iv) 12077.71 cu.cm (v) 13677.71 cu.cm

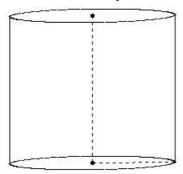
17. If the radius of a cylinder is 16.00 cm and L.S.A is 1910.86 sq.cm, its height is



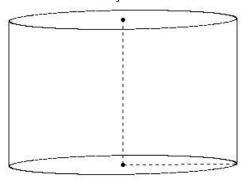
- (i) 14.00 cm (ii) 22.00 cm (iii) 19.00 cm (iv) 16.00 cm (v) 24.00 cm
- 18. If the radius of a cylinder is 20.00 cm and L.S.A is 880.00 sq.cm, its base area is



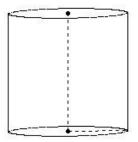
- (i) 1077.14 sq.cm (ii) 1257.14 sq.cm (iii) 1397.14 sq.cm (iv) 1107.14 sq.cm (v) 1317.14 sq.cm
- 19. If the radius of a cylinder is 10.00 cm and L.S.A is 1131.43 sq.cm, its T.S.A is



- (i) 1720.00 sq.cm (ii) 1790.00 sq.cm (iii) 1760.00 sq.cm (iv) 1880.00 sq.cm (v) 1530.00 sq.cm
- 20. If the radius of a cylinder is 14.00 cm and L.S.A is 1584.00 sq.cm, its volume is

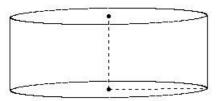


- (i) 12388.00 cu.cm (ii) 11088.00 cu.cm (iii) 8488.00 cu.cm (iv) 10288.00 cu.cm (v) 13488.00 cu.cm
- 21. If the radius of a cylinder is 7.00 cm and T.S.A is 924.00 sq.cm, its height is

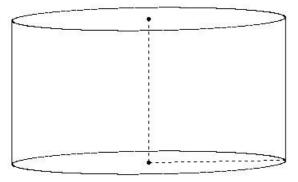


(i) 11.00 cm (ii) 17.00 cm (iii) 9.00 cm (iv) 14.00 cm (v) 19.00 cm

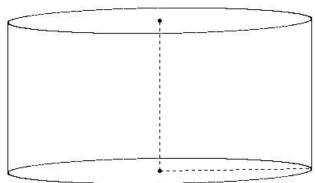
22. If the radius of a cylinder is 12.00 cm and T.S.A is 1584.00 sq.cm, its base area is



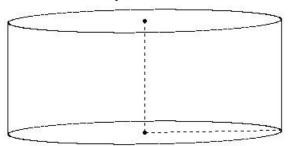
- (i) 426.57 sq.cm (ii) 452.57 sq.cm (iii) 467.57 sq.cm (iv) 470.57 sq.cm (v) 435.57 sq.cm
- 23. If the radius of a cylinder is 17.00 cm and T.S.A is 3740.00 sq.cm, its L.S.A. is



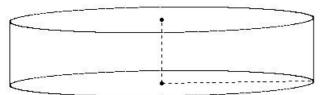
- (i) 1923.43 sq.cm (ii) 2173.43 sq.cm (iii) 2103.43 sq.cm (iv) 1693.43 sq.cm (v) 1803.43 sq.cm
- 24. If the radius of a cylinder is 19.00 cm and T.S.A is 4538.29 sq.cm, its volume is



- (i) 21556.86 cu.cm (ii) 21356.86 cu.cm (iii) 19856.86 cu.cm (iv) 22056.86 cu.cm (v) 23956.86 cu.cm
- 25. If the radius of a cylinder is 17.00 cm and volume is 12716.00 cu.cm, its height is

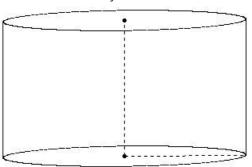


- (i) 17.00 cm (ii) 9.00 cm (iii) 14.00 cm (iv) 19.00 cm (v) 11.00 cm
- 26. If the radius of a cylinder is 19.00 cm and volume is 9076.57 cu.cm, its base area is



(i) 1134.57 sq.cm (ii) 1174.57 sq.cm (iii) 1374.57 sq.cm (iv) 884.57 sq.cm (v) 1114.57 sq.cm

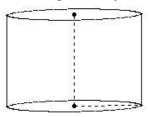
27. If the radius of a cylinder is 15.00 cm and volume is 12021.43 cu.cm, its L.S.A. is



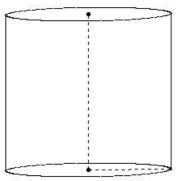
- (i) 1672.86 sq.cm (ii) 1602.86 sq.cm (iii) 1552.86 sq.cm (iv) 1332.86 sq.cm (v) 1862.86 sq.cm
- 28. If the radius of a cylinder is 20.00 cm and volume is 13828.57 cu.cm, its T.S.A is



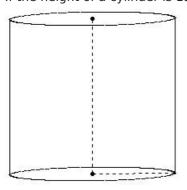
- (i) 3897.14 sq.cm (ii) 3857.14 sq.cm (iii) 4027.14 sq.cm (iv) 3967.14 sq.cm (v) 3777.14 sq.cm
- 29. If the height of a cylinder is 11.00 cm and base area is 201.14 sq.cm, its radius is



- (i) 6.00 cm (ii) 8.00 cm (iii) 7.00 cm (iv) 9.00 cm (v) 10.00 cm
- 30. If the height of a cylinder is 19.00 cm and base area is 314.29 sq.cm, its L.S.A. is

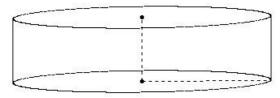


- (i) 1274.29 sq.cm (ii) 1194.29 sq.cm (iii) 1134.29 sq.cm (iv) 934.29 sq.cm (v) 1464.29 sq.cm
- 31. If the height of a cylinder is 19.00 cm and base area is 314.29 sq.cm, its T.S.A is



(i) 1982.86 sq.cm (ii) 1672.86 sq.cm (iii) 1662.86 sq.cm (iv) 1822.86 sq.cm (v) 1852.86 sq.cm

32. If the height of a cylinder is 8.00 cm and base area is 804.57 sq.cm, its volume is



- (i) 6286.57 cu.cm (ii) 6476.57 cu.cm (iii) 6266.57 cu.cm (iv) 6436.57 cu.cm (v) 6616.57 cu.cm
- A well of diameter 17.00 m is dug to a depth of 13.00 m and the soil from digging is evenly spread out to form a platform of base dimensions $15.00 \text{ m} \times 31.00 \text{ m}$. Find the height of the platform
 - (i) 4.35 m (ii) 8.35 m (iii) 7.35 m (iv) 5.35 m (v) 6.35 m
- A well of diameter 12.00 m is dug to a depth of 14.00 m. The soil taken out of it has been spread evenly all 34. around it in the shape of a circular ring of width 15m to form an embankment. Find the height of the embankment.
 - (i) 2.24 m (ii) 0.24 m (iii) 3.24 m (iv) 1.24 m (v) 9.24 m
- A copper sphere having a radius of 5.00 cm is melted and drawn into a cylindrical wire of radius 0.30 cm. Calculate the length of the wire.
 - (i) 21.52 m (ii) 15.52 m (iii) 18.52 m (iv) 13.52 m (v) 23.52 m
- 36. A copper rod of diameter 1.80 cm and length 14.00 cm is drawn into a wire of length 102.06 m of uniform thickness. Find the thickness of the wire.
 - (i) $\frac{1}{10}$ cm (ii) $\frac{2}{15}$ cm (iii) $\frac{1}{30}$ cm (iv) $\frac{1}{15}$ cm (v) 0 cm

A farmer connects a pipe of internal diameter 16 cm from a canal into a cylindrical tank in his field, which is 4 m in diameter and 4 m deep.

37. If water flows through the pipe at the rate of $\frac{25}{11}$ kmph ,

in how much time will the tank be filled?

(i) 66.00 min (ii) 69.00 min (iii) 71.00 min (iv) 61.00 min (v) 63.00 min

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

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