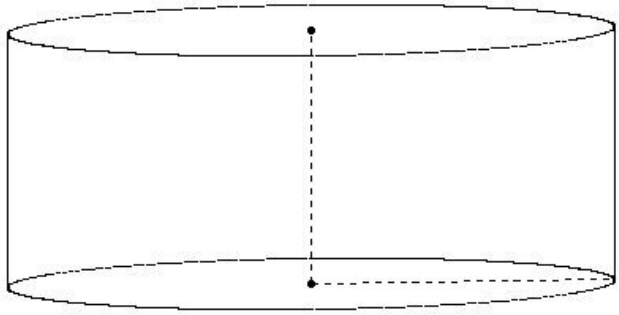
EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Volume and Surface Area of Solids

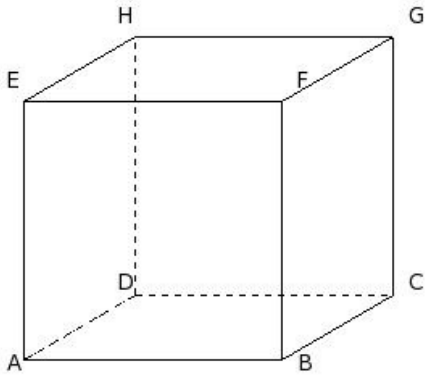
Grade : ICSE Grade IX

1. If the radius of a cylinder is 19.00 cm and volume is 18153.14 cu.cm, its L.S.A. is



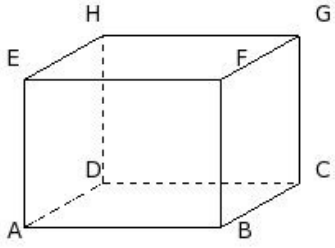
(i) 1960.86 sq.cm (ii) 1680.86 sq.cm (iii) 1850.86 sq.cm (iv) 1910.86 sq.cm (v) 2170.86 sq.cm

2. If the volume of a cube is 4096.00 cu.cm, its side is



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

3. If the length, height and L.S.A of a cuboid are 12.00 cm, 9.00 cm and 414.00 sq.cm respectively, its volume is

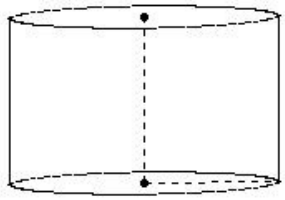


(i) 1188.00 cu.cm (ii) 938.00 cu.cm (iii) 1258.00 cu.cm (iv) 1128.00 cu.cm (v) 1328.00 cu.cm

4. A well of diameter 18.00 m is dug to a depth of 17.00 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.

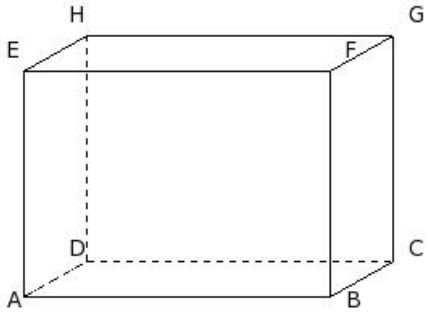
(i) 1.82 m (ii) 4.82 m (iii) 5.82 m (iv) 2.82 m (v) 3.82 m

5. If the height of a cylinder is 10.00 cm and base area is 201.14 sq.cm, its volume is



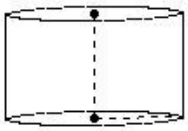
(i) 2151.43 cu.cm (ii) 1961.43 cu.cm (iii) 2291.43 cu.cm (iv) 1791.43 cu.cm (v) 2011.43 cu.cm

6. If the length, height and L.S.A of a cuboid are 19.00 cm, 14.00 cm and 784.00 sq.cm respectively, its T.S.A is



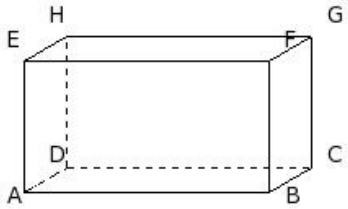
(i) 976.00 sq.cm (ii) 1256.00 sq.cm (iii) 1126.00 sq.cm (iv) 1366.00 sq.cm (v) 1006.00 sq.cm

7. If the height of a cylinder is 6.00 cm and volume is 471.43 cu.cm, its T.S.A is



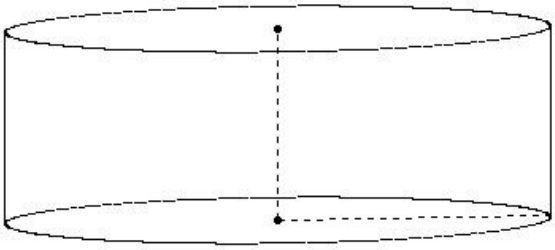
(i) 352.71 sq.cm (ii) 372.71 sq.cm (iii) 327.71 sq.cm (iv) 323.71 sq.cm (v) 345.71 sq.cm

8. If the length, height and T.S.A of a cuboid are 15.00 cm, 8.00 cm and 516.00 sq.cm respectively, its volume is



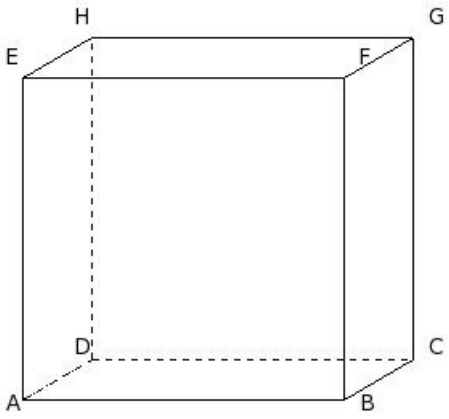
(i) 717.00 cu.cm (ii) 738.00 cu.cm (iii) 697.00 cu.cm (iv) 720.00 cu.cm (v) 722.00 cu.cm

9. If the radius of a cylinder is 17.00 cm and volume is 10899.43 cu.cm, its height is



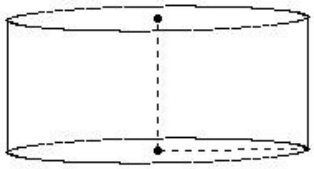
(i) 15.00 cm (ii) 17.00 cm (iii) 7.00 cm (iv) 9.00 cm (v) 12.00 cm

10. If the length, breadth and height of a cuboid are 20.00 cm, 10.00 cm and 20.00 cm respectively, its L.S.A is



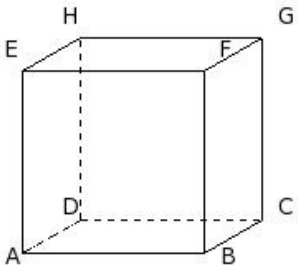
(i) 1440.00 sq.cm (ii) 1200.00 sq.cm (iii) 1040.00 sq.cm (iv) 1280.00 sq.cm (v) 920.00 sq.cm

11. If the radius of a cylinder is 9.00 cm and L.S.A is 452.57 sq.cm, its base area is



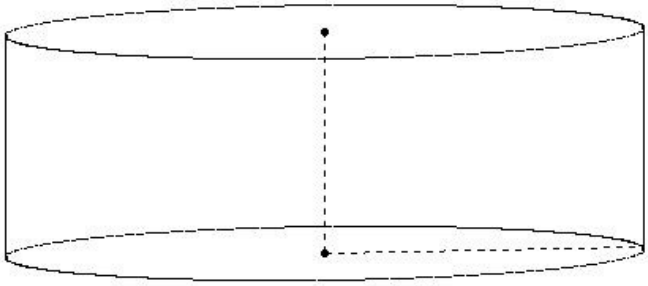
(i) 240.57 sq.cm (ii) 267.57 sq.cm (iii) 254.57 sq.cm (iv) 266.57 sq.cm (v) 241.57 sq.cm

12. If the length, height and T.S.A of a cuboid are 11.00 cm, 11.00 cm and 594.00 sq.cm respectively, its L.S.A is



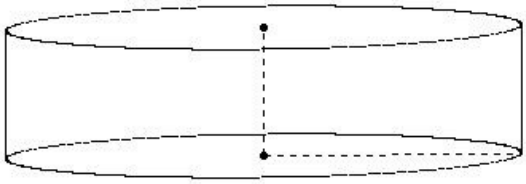
(i) 435.00 sq.cm (ii) 400.00 sq.cm (iii) 418.00 sq.cm (iv) 432.00 sq.cm (v) 393.00 sq.cm

13. If the height of a cylinder is 14.00 cm and T.S.A is 4274.29 sq.cm, its volume is



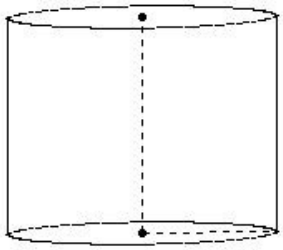
(i) 19200.00 cu.cm (ii) 18000.00 cu.cm (iii) 16800.00 cu.cm (iv) 17600.00 cu.cm (v) 15900.00 cu.cm

14. If the radius of a cylinder is 16.00 cm and height is 8.00 cm, its base area is



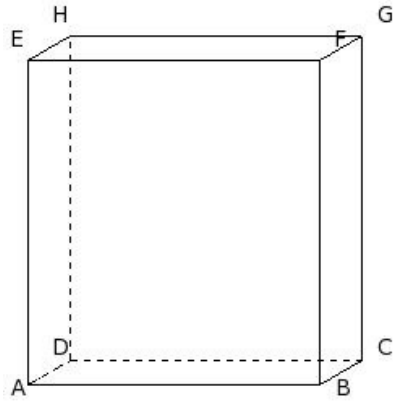
(i) 778.57 sq.cm (ii) 826.57 sq.cm (iii) 804.57 sq.cm (iv) 807.57 sq.cm (v) 798.57 sq.cm

15. If the radius of a cylinder is 8.00 cm and T.S.A is 1056.00 sq.cm, its L.S.A. is



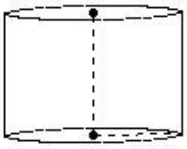
(i) 627.71 sq.cm (ii) 653.71 sq.cm (iii) 671.71 sq.cm (iv) 638.71 sq.cm (v) 656.71 sq.cm

16. If the breadth, height and L.S.A of a cuboid are 6.00 cm, 20.00 cm and 960.00 sq.cm respectively, its T.S.A is



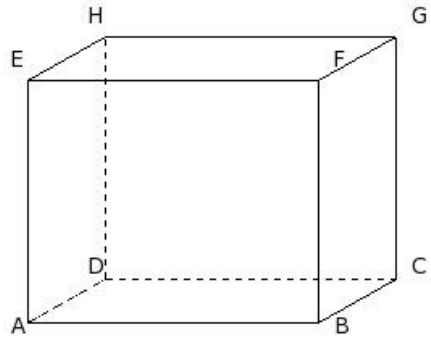
(i) 1316.00 sq.cm (ii) 1406.00 sq.cm (iii) 1026.00 sq.cm (iv) 1176.00 sq.cm (v) 1056.00 sq.cm

17. If the radius of a cylinder is 5.00 cm and volume is 550.00 cu.cm, its T.S.A is



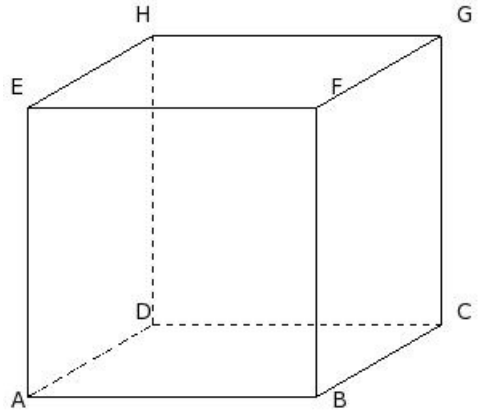
(i) 364.14 sq.cm (ii) 377.14 sq.cm (iii) 392.14 sq.cm (iv) 391.14 sq.cm (v) 370.14 sq.cm

18. If the breadth, height and T.S.A of a cuboid are 11.00 cm, 15.00 cm and 1266.00 sq.cm respectively, its L.S.A is



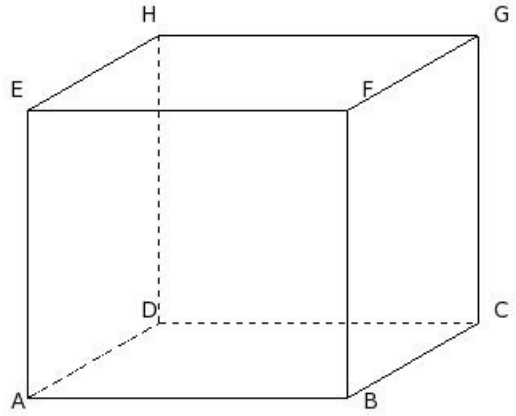
(i) 887.00 sq.cm (ii) 870.00 sq.cm (iii) 852.00 sq.cm (iv) 854.00 sq.cm (v) 898.00 sq.cm

19. If the L.S.A of a cube is 1296.00 sq.cm, its volume is



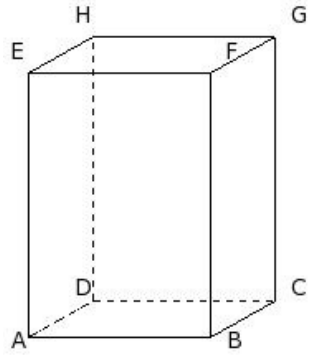
(i) 5852.00 cu.cm (ii) 5562.00 cu.cm (iii) 5772.00 cu.cm (iv) 5832.00 cu.cm (v) 6052.00 cu.cm

20. If the breadth, height and L.S.A of a cuboid are 19.00 cm, 18.00 cm and 1404.00 sq.cm respectively, its length is



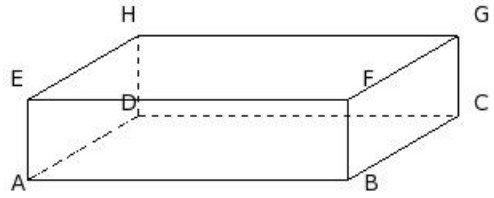
(i) 15.00 cm (ii) 25.00 cm (iii) 23.00 cm (iv) 20.00 cm (v) 17.00 cm

21. If the length, breadth and volume of a cuboid are 11.00 cm, 9.00 cm and 1584.00 cu.cm respectively, its T.S.A is



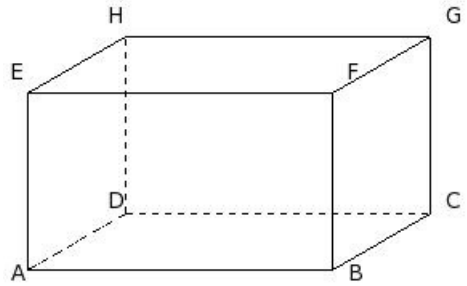
(i) 854.00 sq.cm (ii) 835.00 sq.cm (iii) 860.00 sq.cm (iv) 810.00 sq.cm (v) 838.00 sq.cm

22. If the length, height and volume of a cuboid are 20.00 cm, 5.00 cm and 1600.00 cu.cm respectively, its T.S.A is



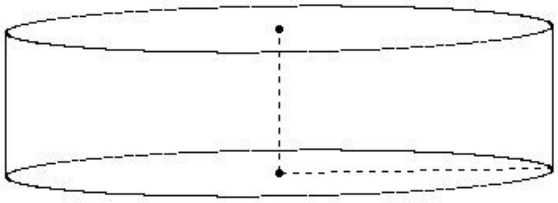
(i) 1060.00 sq.cm (ii) 860.00 sq.cm (iii) 870.00 sq.cm (iv) 1270.00 sq.cm (v) 1000.00 sq.cm

23. If the breadth, height and L.S.A of a cuboid are 14.00 cm, 11.00 cm and 726.00 sq.cm respectively, its volume is



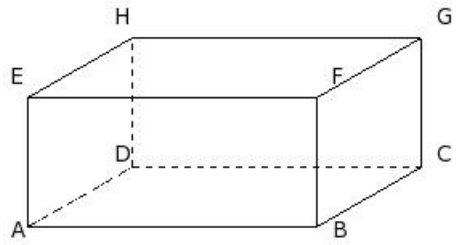
(i) 2656.00 cu.cm (ii) 3046.00 cu.cm (iii) 2926.00 cu.cm (iv) 2806.00 cu.cm (v) 2996.00 cu.cm

24. If the height of a cylinder is 9.00 cm and T.S.A is 2778.29 sq.cm, its base area is



(i) 930.29 sq.cm (ii) 913.29 sq.cm (iii) 906.29 sq.cm (iv) 908.29 sq.cm (v) 894.29 sq.cm

25. If the length, height and volume of a cuboid are 18.00 cm, 8.00 cm and 2160.00 cu.cm respectively, its breadth is



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

Assignment Key

1) (iv)	2) (ii)	3) (i)	4) (v)	5) (v)	6) (iii)
7) (v)	8) (iv)	9) (v)	10) (ii)	11) (iii)	12) (iii)
13) (iv)	14) (iii)	15) (ii)	16) (iv)	17) (ii)	18) (ii)
19) (iv)	20) (iv)	21) (v)	22) (v)	23) (iii)	24) (iv)
25) (v)					