EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Surface areas and Volumes

Grade : SSC Grade IX

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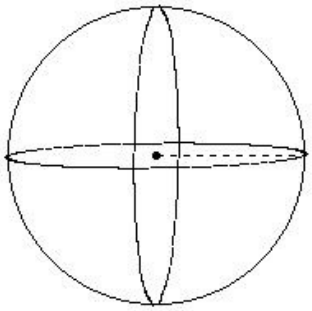
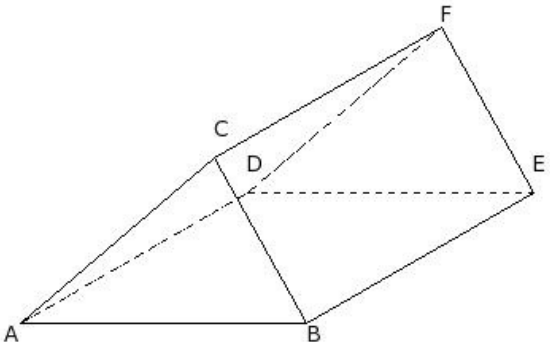
1. If the radius of a sphere is 9.00 cm, its L.S.A is



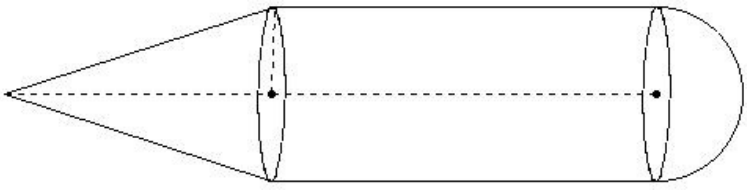
(i) 838.29 sq.cm (ii) 1188.29 sq.cm (iii) 888.29 sq.cm (iv) 1138.29 sq.cm (v) 1018.29 sq.cm

2. If the volume of a triangular prism is 3105.30 cu.cm, base perimeter is 46.00 cm and height is 33.00 cm, its T.S.A is



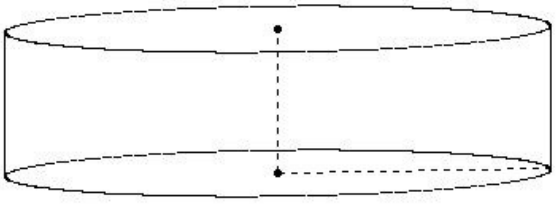
(i) 1706.20 sq.cm (ii) 1666.20 sq.cm (iii) 1956.20 sq.cm (iv) 1536.20 sq.cm (v) 1766.20 sq.cm

3. A solid consists of a right circular cylinder with a hemisphere on one end and a cone on the other . The radius and height of the cylindrical part are 5.50 cm and 24.50 cm respectively. The radii of the hemispherical and conical parts are the same as that of the cylindrical part. Calculate the volume of the solid, if the height of the conical part is 17.00 cm



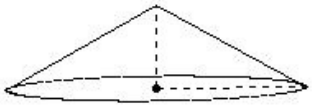
(i) 3216.58 cu.cm (ii) 3446.58 cu.cm (iii) 3156.58 cu.cm (iv) 3256.58 cu.cm (v) 2996.58 cu.cm

4. If the height of a cylinder is 9.00 cm and base area is 908.29 sq.cm, its volume is



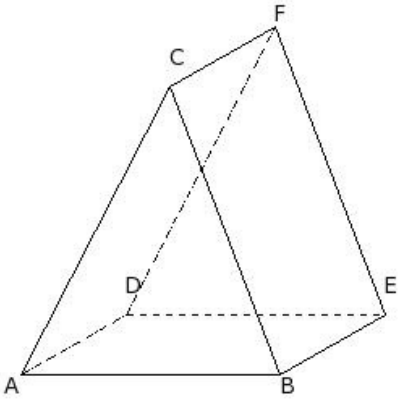
(i) 8444.57 cu.cm (ii) 8124.57 cu.cm (iii) 8174.57 cu.cm (iv) 8334.57 cu.cm (v) 7944.57 cu.cm

5. If the slant height of a cone is 10.30 cm and L.S.A is 291.34 sq.cm, its T.S.A is



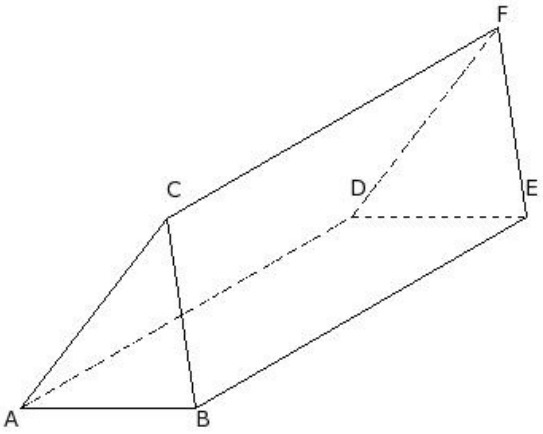
(i) 529.91 sq.cm (ii) 573.91 sq.cm (iii) 550.91 sq.cm (iv) 545.91 sq.cm

6. If the volume of a triangular prism is 2129.85 cu.cm, base perimeter is 55.00 cm and base area is 141.99 sq.cm, its L.S.A is



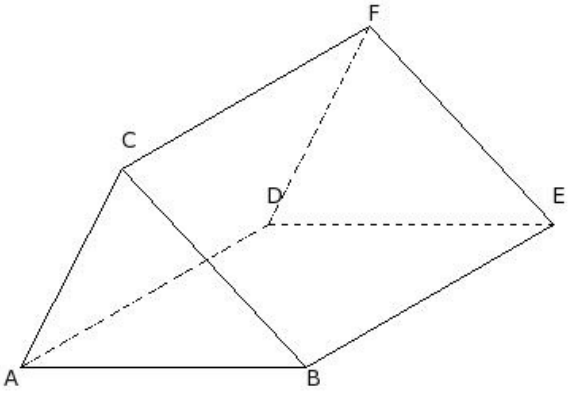
(i) 837.00 sq.cm (ii) 842.00 sq.cm (iii) 825.00 sq.cm (iv) 820.00 sq.cm (v) 801.00 sq.cm

7. If the volume of a triangular prism is 3131.52 cu.cm, base perimeter is 38.00 cm and height is 48.00 cm, its base area is



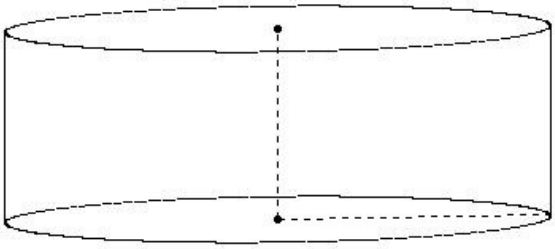
(i) 65.24 sq.cm (ii) 60.24 sq.cm (iii) 62.24 sq.cm (iv) 70.24 sq.cm (v) 68.24 sq.cm

8. If the three sides of a triangular prism are 18.00 cm, 17.00 cm, 14.00 cm and height is 36.00 cm, its volume is



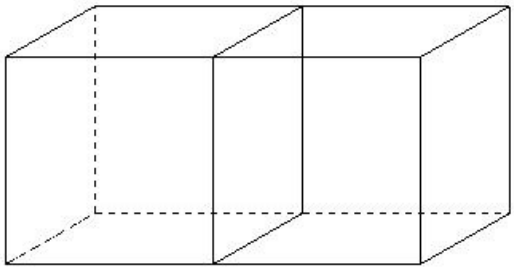
(i) 4031.64 cu.cm (ii) 3991.64 cu.cm (iii) 3781.64 cu.cm (iv) 4211.64 cu.cm

9. If the height of a cylinder is 12.00 cm and base area is 908.29 sq.cm, its T.S.A is



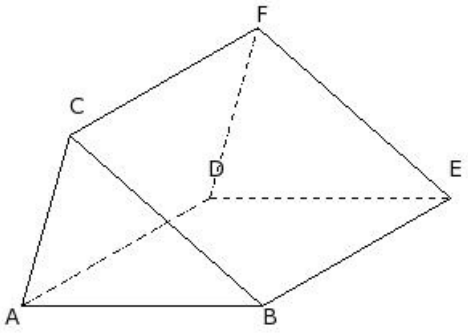
(i) 3258.86 sq.cm (ii) 2868.86 sq.cm (iii) 3378.86 sq.cm (iv) 3038.86 sq.cm (v) 3098.86 sq.cm

10. Two cubes each of volume 2197.00 cu.cm are joined end to end . Find the surface area of the resulting cuboid.



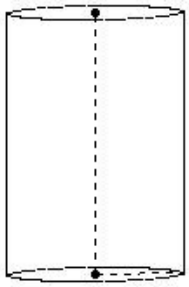
(i) 1550.00 sq.cm (ii) 1690.00 sq.cm (iii) 1560.00 sq.cm (iv) 1810.00 sq.cm (v) 1970.00 sq.cm

11. If the three sides of a triangular prism are 15.00 cm, 16.00 cm, 11.00 cm and T.S.A is 1292.74 sq.cm, its volume is



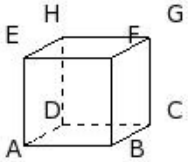
(i) 1892.99 cu.cm (ii) 2142.99 cu.cm (iii) 2282.99 cu.cm (iv) 2022.99 cu.cm (v) 2322.99 cu.cm

12. If the radius of a cylinder is 5.00 cm and T.S.A is 628.57 sq.cm, its L.S.A. is



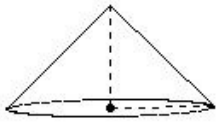
(i) 489.43 sq.cm (ii) 487.43 sq.cm (iii) 446.43 sq.cm (iv) 471.43 sq.cm (v) 459.43 sq.cm

13. If the side of a cube is 5.00 cm, its volume is



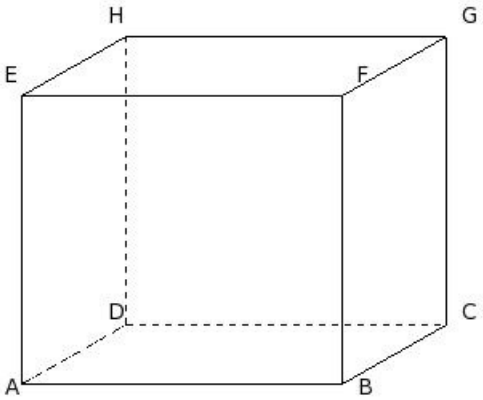
(i) 103.00 cu.cm (ii) 132.00 cu.cm (iii) 125.00 cu.cm (iv) 139.00 cu.cm (v) 107.00 cu.cm

14. If the base radius of a cone is 6.00 cm and T.S.A is 273.24 sq.cm, its L.S.A. is



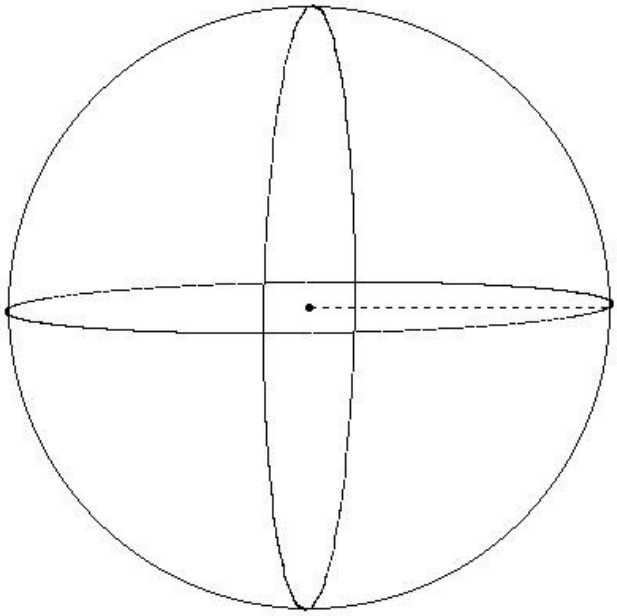
(i) 156.10 sq.cm (ii) 138.10 sq.cm (iii) 172.10 sq.cm (iv) 177.10 sq.cm (v) 160.10 sq.cm

15. If the breadth, height and T.S.A of a cuboid are 15.00 cm, 18.00 cm and 1860.00 sq.cm respectively, its volume is



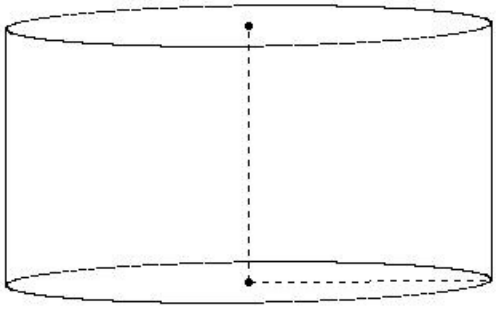
(i) 5350.00 cu.cm (ii) 5280.00 cu.cm (iii) 5460.00 cu.cm (iv) 5400.00 cu.cm (v) 5670.00 cu.cm

16. If the L.S.A of a sphere is 4538.29 sq.cm, its volume is



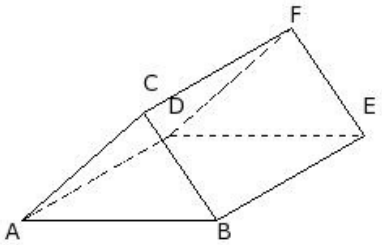
(i) 30942.48 cu.cm (ii) 28142.48 cu.cm (iii) 28742.48 cu.cm (iv) 26442.48 cu.cm (v) 30342.48 cu.cm

17. If the radius of a cylinder is 15.00 cm and volume is 11314.29 cu.cm, its T.S.A is



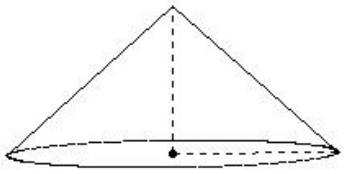
(i) 2642.86 sq.cm (ii) 2922.86 sq.cm (iii) 3042.86 sq.cm (iv) 3182.86 sq.cm (v) 2782.86 sq.cm

18. If the base perimeter of a triangular prism is 30.00 cm, base area is 39.69 sq.cm and height is 21.00 cm, its volume is



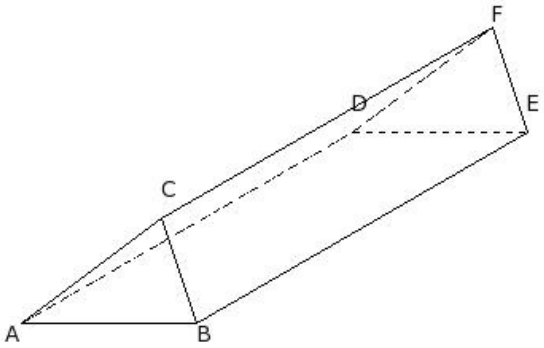
(i) 845.49 cu.cm (ii) 848.49 cu.cm (iii) 833.49 cu.cm (iv) 829.49 cu.cm (v) 816.49 cu.cm

19. If the vertical height of a cone is 9.00 cm and volume is 942.86 cu.cm, its L.S.A. is



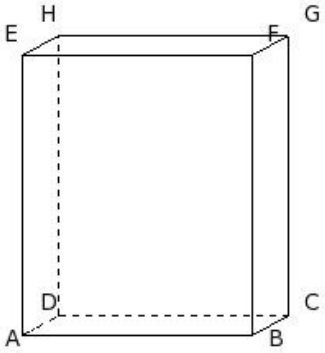
(i) 425.71 sq.cm (ii) 406.71 sq.cm (iii) 438.71 sq.cm (iv) 422.71 sq.cm (v) 404.71 sq.cm

20. If the three sides of a triangular prism are 11.00 cm, 7.00 cm, 11.00 cm and T.S.A is 1465.00 sq.cm, its height is



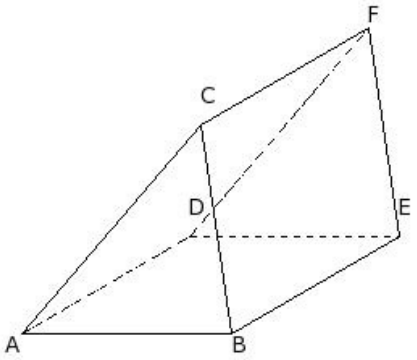
(i) 51.00 cm (ii) 45.00 cm (iii) 48.00 cm (iv) 53.00 cm (v) 43.00 cm

21. If the length, breadth and T.S.A of a cuboid are 14.00 cm, 5.00 cm and 786.00 sq.cm respectively, its L.S.A is



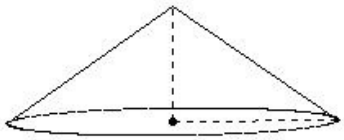
(i) 639.00 sq.cm (ii) 624.00 sq.cm (iii) 672.00 sq.cm (iv) 646.00 sq.cm (v) 651.00 sq.cm

22. If the L.S.A of a triangular prism is 1032.00 sq.cm, T.S.A is 1199.22 sq.cm and height is 24.00 cm, its base perimeter is



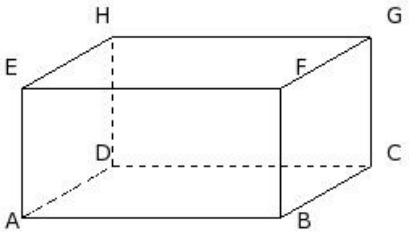
(i) 40.00 cm (ii) 43.00 cm (iii) 46.00 cm (iv) 48.00 cm (v) 38.00 cm

23. If the base radius of a cone is 10.00 cm and slant height is 12.21 cm, its T.S.A is



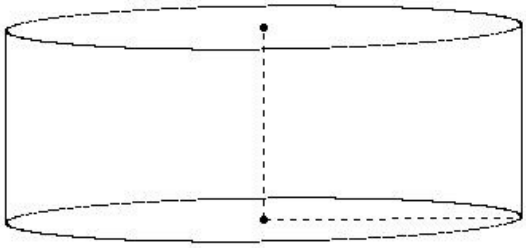
(i) 684.03 sq.cm (ii) 693.03 sq.cm (iii) 714.03 sq.cm (iv) 706.03 sq.cm (v) 698.03 sq.cm

24. If the breadth, height and L.S.A of a cuboid are 13.00 cm, 8.00 cm and 464.00 sq.cm respectively, its T.S.A is



(i) 895.00 sq.cm (ii) 853.00 sq.cm (iii) 887.00 sq.cm (iv) 862.00 sq.cm (v) 880.00 sq.cm

25. If the radius of a cylinder is 16.00 cm and height is 12.00 cm, its T.S.A is



(i) 2536.00 sq.cm (ii) 3046.00 sq.cm (iii) 2646.00 sq.cm (iv) 2816.00 sq.cm (v) 2976.00 sq.cm

Assignment Key

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

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