Practice Set on Perimeter, Area, and Volume (Medium Level)

- 1. Find the perimeter of a rectangle with length 15 cm and width 9 cm.
- 2. Calculate the area of a trapezium with parallel sides 8 m and 12 m and height 5 m.
- 3. Find the volume of a cylinder with radius 7 cm and height 10 cm. (Use $\pi = 3.14$)
- 4. A triangle has sides 7 cm, 24 cm, and 25 cm. Calculate its perimeter.
- 5. Calculate the surface area of a cube with edge length 6 cm.
- 6. Find the area of a sector with radius 5 m and central angle 60°.
- 7. Calculate the volume of a cone with height 12 cm and radius 4 cm. (Use $\pi = 3.14$)
- 8. Find the perimeter of an equilateral triangle with side length 14 cm.
- 9. Calculate the lateral surface area of a cylinder with radius 3 m and height 8 m. (Use $\pi = 3.14$)
- 10. The base of a triangle is 18 m and height is 24 m. Find its area.
- 11. Find the volume of a sphere with radius 10 cm. (Use $\pi=3.14$, volume formula $\frac{4}{3}\pi r^3$)
- 12. A rectangle has area 96 m² and width 8 m. Find its length.
- 13. Find the perimeter of a regular hexagon with side 9 cm.
- 14. Calculate the total surface area of a cuboid with length 10 cm, width 5 cm, and height 4 cm.
- 15. Find the area of a parallelogram with base 12 m and height 7 m.
- 16. Calculate the volume of a prism with triangular base area 24 cm² and length 15 cm.
- 17. Find the perimeter of a semicircle with diameter 14 cm.
- 18. Calculate the surface area of a sphere with radius 7 cm. (Use $4\pi r^2$)
- 19. A trapezium has sides 9 m, 12 m, 7 m, and 7 m. Find its perimeter.
- 20. Find the volume of a cube with edge length 9 cm.
- 21. Calculate the area of a circle with circumference 31.4 m.
- 22. Find the surface area of a cone with radius 3 m, slant height 5 m. (Use $\pi = 3.14$)
- 23. The height of a trapezium is 10 cm, and the parallel sides are 12 cm and 18 cm. Find its area.
- 24. Calculate the perimeter of a rectangle whose diagonal is 13 m and length is 12 m.

- 25. Find the volume of a pyramid with square base edge 6 m and height 10 m.
- 26. Calculate the lateral surface area of a cylinder with diameter 16 cm and height 24 cm.
- 27. Find the area of an isosceles triangle with equal sides 13 cm and base 10 cm.
- 28. Calculate the curved surface area of a cone with radius 7 cm and height 24 cm.
- 29. The side length of a regular octagon is 5 cm. Find its perimeter.
- 30. Calculate the volume of a cylinder with base area 50 cm² and height 16 cm.
- 31. A circle sector has radius 10 m and arc length 15.7 m. Calculate the corresponding central angle. (Use $\pi=3.14$)
- 32. Find the surface area of a cuboid with dimensions 14 cm by 11 cm by 10 cm.
- 33. Calculate the total surface area of a cylinder with radius 5 cm and height 14 cm.
- 34. Find the area of a rhombus with diagonals measuring 9 cm and 12 cm.
- 35. Calculate the volume of a cone with base radius 6 m and height 14 m.
- 36. Calculate the perimeter of a pentagon with side length 15 cm.
- 37. Find the surface area of a sphere with diameter 16 cm.
- 38. A rectangle has perimeter 56 m and length 18 m. Find its width.
- 39. Calculate the area of a triangle with sides 7 cm, 9 cm, and 12 cm using Heron's formula.
- 40. Find the volume of a prism with triangular base of sides 5 cm, 6 cm, and 7 cm and length 20 cm.
- 41. Calculate the curved surface area of a cylinder with radius 4 cm and height 10 cm.
- 42. The radius of a circle is 14 cm. Find its area.
- 43. Find the lateral surface area of a cone with radius 10 cm and slant height 13 cm.
- 44. Calculate the volume of a cuboid measuring 8 m by 5 m by 3 m.
- 45. Find the perimeter of an equilateral triangle with side length 21 cm.
- 46. Calculate the total surface area of a cube with edge length 14 cm.
- 47. Find the area of a parallelogram with sides of 8 m and 12 m with angle between them 30°.
- 48. Calculate the volume of a sphere with radius 6 cm.
- 49. Find the area of a trapezium with parallel sides 15 cm and 7 cm and height 10 cm.
- 50. Calculate the volume of a cylinder with radius 3 m and height 20 m.
- 51. The triangle has sides 8 m, 15 m, and 17 m. Calculate its area using Heron's formula.

- 52. Find the volume of a prism with base area 50 m² and length 40 m.
- 53. Calculate the perimeter of a regular dodecagon with side length 6 cm.
- 54. Find the surface area of a cone with radius 12 cm and height 35 cm.
- 55. Calculate the area of a rhombus with side length 25 cm and height 10 cm.
- 56. Find the volume of a pyramid with square base edge 10 cm and height 15 cm.
- 57. The radius of a sphere is 9 cm. Calculate its surface area.
- 58. Calculate the area of a circle with radius 11 cm.
- 59. Find the curved surface area of a cone with radius 9 cm and slant height 24 cm.
- 60. Calculate the volume of a cuboid with dimensions 11 cm, 8 cm, and 13 cm.
- 61. A triangle with sides 9 cm, 10 cm and 13 cm—find its area using Heron's formula.
- 62. Calculate the area of a trapezium with parallel sides 18 m and 9 m and height 6 m.
- 63. Find the volume of a cylinder with radius 6 cm and height 15 cm.
- 64. Calculate the surface area of a cube with edge length 18 cm.
- 65. Find the perimeter of a square with diagonal length 20 cm.
- 66. Calculate the area of an isosceles triangle with equal sides 10 cm and base 12 cm.
- 67. Find the volume of a cylinder whose curved surface area is 150.72 cm² and radius 6 cm.
- 68. Calculate the total surface area of a cuboid with length 20 cm, width 12 cm, and height 10 cm.
- 69. Find the perimeter of a triangle with sides 14 cm, 15 cm, and 16 cm.
- 70. Calculate the area of a circle whose circumference is 62.8 m. (Use $\pi = 3.14$)
- 71. Find the curved surface area of a cone with radius 20 cm and height 21 cm.
- 72. Calculate the volume of a cube with edge length 22 cm.
- 73. Find the area of a parallelogram with base 18 m and height 8 m.
- 74. Calculate the volume of a pyramid with base area 80 cm² and height 25 cm.
- 75. Find the surface area of a sphere with radius 15 cm.
- 76. A right triangular prism has triangular base area 35 cm² and length 20 cm. Find its volume.
- 77. Calculate the total surface area of a cylinder with radius 7 m and height 10 m.
- 78. Find the area of the sector of a circle with radius 20 cm and central angle 45°.
- 79. Calculate the volume of a cone with height 18 cm and radius 9 cm.

- 80. Find the perimeter of a rectangle with diagonal length 26 m and width 10 m.
- 81. Calculate the area of a trapezium with parallel sides 22 cm and 28 cm and height 12 cm.
- 82. Find the volume of a cuboid with length 23 cm, width 10 cm and height 15 cm.
- 83. Calculate the lateral surface area of a cone with radius 5 cm and slant height 13 cm.
- 84. Find the volume of a cuboid with length 18 cm, width 12 cm, and height 10 cm.
- 85. Calculate the area of a square with diagonal length 15 cm.
- 86. Find the perimeter of a triangle with sides 13 cm, 14 cm, and 15 cm.
- 87. Calculate the surface area of a cube with edge length 25 cm.
- 88. A triangle has a base of 30 m and a height of 25 m. Find the area.
- 89. Calculate the volume of a cylinder with radius 10 cm and height 20 cm.
- 90. Find the surface area of a sphere with radius 20 cm.
- 91. Calculate the area of a circle with radius 18 cm.
- 92. Find the volume of a cube whose edge length is 30 cm.
- 93. Find the total surface area of a cylinder with radius 14 cm and height 10 cm.
- 94. Calculate the perimeter of a right triangle with legs 24 cm and 7 cm.
- 95. Find the volume of a prism with base area 62 m² and length 45 m.
- 96. Calculate the area of a trapezium with parallel sides 25 cm and 15 cm and height 12 cm.
- 97. Find the surface area of a cone with base radius 8 cm and height 15 cm.
- 98. Calculate the volume of a pyramid with square base edge 8 m and height 18 m.
- 99. Find the area of a rectangle with length 15 cm and perimeter 50 cm.
- 100. Calculate the lateral surface area of a cylinder with radius 14 cm and height 24 cm.