The Wisdom Global School

Subject–Mathematics

Topic – Mensuration

(MCQ Worksheet)

Q1. A cone has a radius of 24.5 cm and a slant height of 70 cm. The curve surface area of the cone is –

(a) 5191 cm^2 (b) 5491 cm^2 (c) 5390 cm^2 (d) 6549 cm^2

Q2. Find the CSA of a cylinder, whose radius is 21 cm and height 9 cm.

(a) 1298 cm^2 (b) 1188 cm^2 (c) 1338 cm^2 (d) 1228 cm^2

Q3. What is the volume of the cylinder whose height is 14 cm and the diameter of the base is 4 cm?

(a) 363 cm^3 (b) 129 cm^3 (c) 156 cm^3 (d) 176 cm^3

Q4. What is the total surface area of the cylinder having a diameter of 28 cm and a height of 20 cm?

(a) 2994 cm^2 (b) 2993 cm^2 (c) 2992 cm^2 (d) 2991 cm^2

Q5. The total surface area of a solid cylinder is 462 cm^2 and its Curved surface area is one-third
Of its Total surface area. What is the volume of the cylinder?

(a) 448 cm^3 (b) 539 cm^3 (c) 264 cm^3 (d) 339 cm^3

Q6. Find the surface area of a sphere whose diameter is 28 cm.

(a) 2640 cm^2 (b) 2464 cm^2 (c) 2064 cm^2 (d) 2644 cm^2

Q7. The diameter of the hemisphere is 14. What is the total surface area of hemisphere?

(a) 462 cm^2 (b) 426 cm^2 (c) 550 cm^2 (d) 488 cm^2

Q8. The total surface area of a solid hemisphere is 16632 cm^2. Its volume is-

(a) 45132 cm^3 (b) 140232 cm^2 (c) 150032 cm^3 (d) 155232 cm^3

Q9. Find the surface area of a sphere whose volume is 4851 cubic metres.

(a) 1380 m^2 (b) 1360 m^2 (c) 1386 m^2 (d) 1368 m^2

Q10. Find the circumference of the circle whose radius is 49 cm.

(a) 208 cm   (b) 288 cm   (c) 308 cm   (d) 407 cm

Q11. The height and radius of a cylinder are 15 cm and 7 cm respectively find the total surface area is:

a) 968 cm^2 (b) 986 cm^2 (c) 906 cm^2 (d) 886 cm^2

Q12. How many spherical bullets can be made out of a lead cylinder 28 cm high and with base radius 6 cm, each bullet being 1.5 cm in diameter?
(a) 1600   (b) 1793   (c) 1601   (d) 1792

Q13. Two metallic right circular cones having their heights 4.1 cm and 4.3 cm and the radii of their bases 2.1 cm each, have been melted together and recast into a sphere. Find the diameter of the sphere.
(a) 4 cm   (b) 4.1 cm   (c) 4.2 cm   (d) 4.3 cm

Q14. A hemispherical bowl of internal radius 9 cm contains a liquid. This liquid is to be filled into cylindrical shaped small bottles of diameter 3 cm and height 4 cm. How many bottles will be needed to empty the bowl?
(a) 23   (b) 34   (c) 54   (d) 46

Q15. If the radius of a cylinder is 4 cm and height is 10 cm, then the total surface area of a cylinder is:
(a) 440 sq.cm   (b) 352 sq.cm.   (c) 400 sq.cm   (d) 412 sq.cm

Q16. The diameter of the base of a cone is 10.5 cm, and its slant height is 10 cm. The curved surface area is:
(a) 150 sq.cm   (b) 165 sq.cm   (c) 177 sq.cm   (d) 180 sq.cm

Q17. A cone is 8.4 cm high and the radius of its base is 2.1 cm. It is melted and recast into a sphere. The radius of the sphere is:
(a) 4.2 cm   (b) 2.1 cm   (c) 2. 4 cm   (d) 1.6 cm

Q18. The radii of two cylinders are in the ratio of 2:3 and their heights are in the ratio of 5:3. The ratio of their volumes is:
(a) 10: 17   (b) 20: 27   (c) 17: 27   (d) 20: 37

Q19. The radius of a hemispherical balloon increases from 6 cm to 12 cm as air is being pumped into it. The ratio of the surface areas of the balloon in the two cases is:
(a) 1:4   (b) 1:3   (c) 2:3   (d) 2:1

Q20. The surface area of a sphere of radius 14 cm is:
(a) 1386 sq.cm   (b) 1400 sq.cm   (c) 2464 sq.cm   (d) 2000 sq.cm

Q21. Total surface area of a hemisphere is 4158 cm^2 then the diameter of the hemisphere is equal to _____ cm. (Take $\pi = 22/7$)
(a) 40 cm   (b) 20 cm   (c) 21 cm   (d) 42 cm

Q22. What is the total surface area of a cone of radius 7cm and height 24cm? (Take $\pi = 22/7$)
(a) 710 cm^2 (b) 704 cm^2 (c) 700 cm^2 (d) 725 cm^2

Q23. The diameter of a sphere whose surface area is 346.5 cm^2 is:
(a) 5.25 cm   (b) 5.75 cm   (c) 11.5 cm   (d) 10.5 cm

Q24. A hemispheric dome of radius 3.5 m is to be painted at a rate of ₹600/m^2. What is the cost of painting it? (Take $\pi = 22/7$)
(a) ₹46200   (b) ₹45000   (c) ₹47260   (d) ₹48375

Q25. The diameter of the base of a cone is 10.5 cm, and its slant height is 10 cm. The curved surface area is:
(a) 150 sq.cm   (b) 165 sq.cm   (c) 177 sq.cm   (d) 180 sq.cm