

WORKSHEET SURFACE AREA OF SPHERE AND HEMISPHERE

Class IX

Q 1. The surface area of a sphere of radius 14 cm is:

(a) 1386 cm^2 (b) 1400 sq.cm (c) 2464 cm^2 (d) 2000 sq.cm

Q 2. The surface area of a sphere of radius 7 cm is

(a) 615 cm^2 (b) 616 cm^2 (c) 617 cm^2 (d) 618 cm^2

Q 3. The hollow sphere, in which the circus motorcyclist performs his stunts, has a radius of 2.8 m. find the area available to the motorcyclist for riding.

(a) 98.56 m^2 (b) 140.10 m^2 (c) 24.64 m^2 (d) 20.06 m^2

Q 4. The radius of a hemispherical balloon increases from 6 cm to 12 cm as air is being pumped into it. The ratios of the surface areas of the balloon in the two cases is

(a) $1 : 4$ (b) $1 : 3$ (c) $2 : 3$ (d) $2 : 1$

Q 5. If the total surface area of a sphere is 154 cm^2 , its diameter

(a) 5 cm (b) 6 cm (c) 7 cm (d) 8 cm

Q 6. The radius of sphere is doubled then the ratio of the surface area of the old is to new spheres is

(a) $4 : 1$ (b) $1 : 2$ (c) $2 : 1$ (d) $1 : 4$

Q 7. A hemispherical bowl has a radius of 3.5cm. what would be the curved surface area of the bowl?

(a) 77 cm^2 (b) 77.21 cm^2 (c) 77.6 cm^2 (d) 77.34 cm^2

Q 8. A shot-put is metallic sphere of radius 4.9cm. Then what is its area?

(a) 305.21 cm^2 (b) 303.34 cm^2 (c) 301.84 cm^2 (d) 340.78 cm^2

Q 9. The radius of a coconut is 7 cm. is to be cover with a golden paper and the cost of paper is Rs 7 per cm^2 then how much money spend for the golden paper?

(a) Rs. 3213 (b) Rs. 4312 (c) Rs. 4356 (d) Rs. 1234