SURFACE AREA & VOLUME WORKSHEET

Q.1 The formula for the surface area of a cylinder?

     a) $2r(h+r)$

     b) $2\pi r(h+r)$

     c) $\frac{1}{2}\pi r(h+r)$

     d) $2\pi hr$

Q.2 A cylindrical-shaped cold drink cane has a height and radius of 7 inches and 4 inches respectively. Its surface area is _____.

Q.3 The volume of soft drink in a plastic cylinder is 384.84 cm^3, having a radius of 3.5 cm and height of 10 cm.

    a. True

    b. False

Q.4 The volume of a cubical dice with a side length of 4 cm.

Q.5 The dimensions of a matchbox are given as 2 inches × 2.5 inches × 1.5 inches. Find the volume of the packet containing 10 such matchboxes.

Q.6 The length, width, and height of a room are 12 foot, 10 foot, and 11 foot respectively. Then the surface area of the room is 1320 sq feet.

    a. True

    b. False

Q.7 The radius and volume of a cone are 5 cm and 235.61cm^3 respectively. Determine the height of the cone (Use π = 3.14).

Q.8 A cylindrical-shaped vessel of diameter 14 cm and height 21 cm is filled with oil. If a sphere of diameter 13 cm is dipped in the cylindrical vessel, then determine the volume of oil remaining in the cylindrical vessel.

Q.9 If the surface area of a sphere is 324πcm^2, then find the radius and volume of the sphere.

Q.10 A well is in the form of a cylinder with a radius of 3 feet and its height is 15 feet. If it contains water up to a height of 6 feet from the base. Find the remaining dry surface area of the well. (Hint: dry surface area = surface which is not in a contact with water)

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ANSWERS

1)	b. 2πr(h+r)
2)	$276.46 units^2$
3)	True
4)	$64 cm^2$
5)	$75 inches^3$
6)	True
7)	9 cm
8)	$2082.35 cm^3$
9)	r=9cm, V= 972π
10)	169.64 sq. feet