VOLUME WORKSHEET

1) If the edge of a cube is 5m in length. Choose the correct volume from the given options.

   a) 225 cubic m

   b) 125 cubic m

   c) 225 cubic ft

   d) 125 cubic ft

2) What is the volume of a cuboid having length, breadth, and height as 8 inches, 3 inches, and 12 inches respectively?

3) True / false:

   a) All 2-d objects contain some volume.

   b) If the volume of cube and cuboid is equal, then both have the same length, breadth, and depth.

4) Find the volume of a cone having a height 3.5 times of its radius. Given the radius of the cone is 10 inches.

5) Find the volume of a sphere of largest chord of length 21 units.

6) The length of a long circular rod has been doubled and the diameter has been made half. Find the ratio of the volume of the new circular rod, and the old circular rod.

7) The volume of two spheres is 64: 125. What is the ratio of their surface areas?

8) What is the ratio of the volumes of the spheres having radius 'r' and '3r'?

9) A cylindrical shaped vessel of height 14 inches and radius 6 inches is completely filled with water. If a solid cube of side 4 inches is dipped in the vessel, then find the amount of water remaining in the vessel.

10) The volume of a cylinder is equal to the volume of a cone. If the radius of the cylinder is equal to the base radius of the cone, then find the ratio of height of the cone to the height of the cylinder.

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ANSWERS

1)	b) 125 cubic m
2)	288 cubic inches
3)	a) False b) False
4)	110,000/3 cubic units
5)	4851 cubic units
6)	2 : 1

7)	16 : 25
8)	127
9)	1072 in^3
10)	3

1. Volume of a T-Rex brain is approx. 100 cm3 Volume usually expressed in units that are the cubes of linear units, such as cubic inches and cubic meters.
2. Or Units of dry and liquid measure, such as gallons, bushels, and liters.
3. $140cm^3$ is the approximate volume of salt in a human.