Q1) Find the volume of the cylinder with radius 3 m and height 6m. Round your answer to the nearest tenth.

Q2) Find the radius of the sphere with volume 288π ft³.

Q 3) The dimensions of a cubical box is given as 3 cm × 3 cm × 3 cm. Find the volume of the 7 such boxes.

Q 4) Determine the radius of a cone whose volume is 1570 cm³ and height is 15 cm. (Use π = 3.14)

Q 5) The volume of a conical vessel is 80 in.³ and its height is 9 inches. Find the radius of the vessel to the nearest tenth.

Q 6) The following solid is composed of unit cubes. Find the volume of the solid.
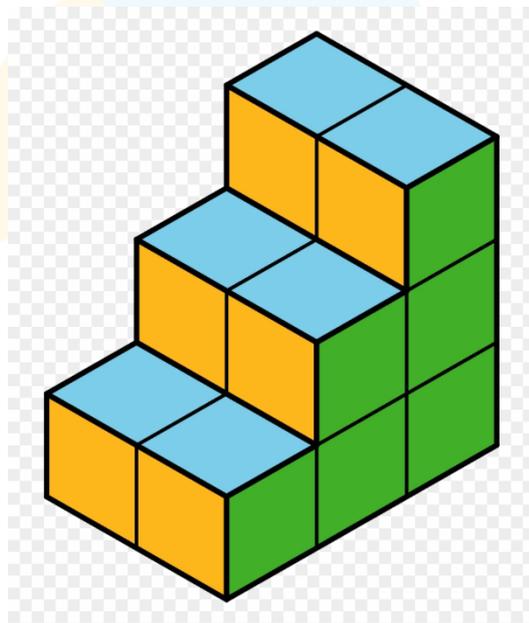
Q 7) The length and height of a cuboid are 4 inches and 2 inches

respectively. Find the height of the cuboid if its volume is 24 cubic inches.

Q 8) Let the radius of two spheres be 'r' and '5r' respectively. Find the ratio of their volumes.

Q 9) Find the radius of the cone whose volume and height are 48π cm^3 and 9 cm.

Q 10) Mia has 10 wax marbles each with radius 3 cm. Find the volume of all wax marbles.

Q 11) The volume of a cylinder and its height are given by 198 cm^3 and 7 cm respectively. Determine the circumference of the base of the cylinder in terms of π.

Q 12) Volume of one big sphere is equal to the volume of 8 small spheres. Calculate the ratio of volume of big sphere to volume of small sphere.

Q 13) Prove that the volume of the cone of radius 'r' and height '4h' is equal to the volume of the cone having radius '2r' and height 'h'.

Q 14) A cylindrical shaped vessel of height 14 inches and radius 6 inches is completely filled with water. A solid cube is dipped in the vessel and the volume of water remaining in the vessel is 1072 in^3. Find the side length of the cube.

Q 15) The volume of a sphere of radius 6 cm is equal to the volume of a cylinder of height 12 cm. Find the radius of the cylinder.

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ANSWERS

1) 169.6 m^3	2) 6 ft	3) 189 cm^3	4) 10 cm	5) 2.9 inches
6) 12 units^3	7) 3 inches	8) 1:125	9) 4 cm	10) 5544 cm^3
11) 6π	12) 8:1	13) --	14) 8 inches	15) 4.9 cm

FUN FACT

1. A significant amount of credit goes to William Rowan Hamilton for developing the concept of linear equations.

2. The linear equation was invented in the year 1843 by a mathematician from Ireland.