	ER BLITZ possible Education Managem	ent Company	SA-2-PT-1 Max Marks- 50				
me:	Class: IX	Time: 1 Hour	Date: 15-1	11-2015 Course: E	BLIT		
	MATHS						
	In a cylinder, if radius is halve	d and height is doubled,	the volume will be				
1.	(A) same	(B) doubled	(C) halved	(D) four times			
2.	The radius of a sphere is 2 <i>r</i> , then its volume will be						
	(a) $\frac{4}{3}\pi r^{3}$	(b) $4\pi r^{3}$	(c) $\frac{8}{3}\pi r^{3}$	(d) $\frac{32}{3}\pi r^3$			
3.	The total surface area of a cube is 96 cm ² . The volume of the cube is:						
	(A) 8 cm ³	(B) 512 cm ³	(C) 64 cm ³	(D) 27 cm ³			
4.	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			
5.	In a cylinder, radius is doubled and height is halved, curved surface area will be						
	(A) halved	(B) doubled	(C) same	(D) four times			
6.	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			
7.	The lateral surface area of a cube is 256 m ² . The volume of the cube is						
	(A) 512 m ³	(B) 64 m ³	(C) 216 m ³	(D) 256 m ³			
8.	The number of planks of dimensions (4 m × 50 cm × 20 cm) that can be stored in a pit which is 16 m long, 12m wide and 4 m deep is						
	(A) 1900	(B) 1920	(C) 1800	(D) 1840			
9.	The length of the longest pole (A) 15 m	e that can be put in a roc (B) 16 m	om of dimensions (1 (C) 10 m	.0 m × 10 m × 5m) is (D) 12 m			
	The radius of a hemispherical balloon increases from 6 cm to 12 cm as air is being pumped into it. The						
10.	ratios of the surface areas of (A) 1:4	the balloon in the two ca (B) 1 : 3	ases is (C) 2 : 3	(D) 2 : 1			
11.	Metal spheres, each of radius 2 cm, are packed into a rectangular box of internal dimensions 16 cm × 8 cm × 8 cm. When 16 spheres are packed the box is filled with preservative liquid. Find the volume of this liquid. Give your answer to the nearest integer. [Use π =3.14]						
	Find the amount of water displaced by a solid spherical ball of diameter 4.2 cm, when it is completely immersed in water.						

CAREER BLITZ A Responsible Education Management Company

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13.	A school provides milk to the students daily in a cylindrical glasses of diameter 7 cm. If the glass is filled with milk upto an height of 12 cm, find how many litres of milk is needed to serve 1600 students.	4
14.	A small village, having a population of 5000, requires 75 litres of water per head per day. The village has got an overhead tank of measurement 40 m × 25 m × 15 m. For how many days will the water of this tank last?	4
15.	A right triangle with sides 6 cm, 8 cm and 10 cm is revolved about the side 8 cm. Find the volume and the curved surface of the solid so formed.	4