Mensuration: Worksheet -7

1.	Three metal cubes of volume 125 cm ³ , 64 cm ³ and 27 cm ³ are melted						
	to form a new cube then the edge of the new cube formed is $___$						
				[]			
	a) 12 cm	b) 6 cm	c) 20 cm	d) 10 cm			
2.	A cuboid in such that its length is 2 times the width and the width is 2						
	times its height. The side of a square whose area is equal to the total						
	surface area of the cuboid in terms of the height of the cuboid is						
				[]			
	a) 4 h	b) 6 h	c) $2\sqrt{7}$ h	d) $4\sqrt{7}$ h			
3.	The areas of three adjacent faces of a cuboid are x, y and z then the						
	volume of cuboid	l is		[]			
	a) $\frac{1}{2}$ xyz	b) xy <mark>z</mark>	c) \sqrt{xyz}	d) (xyz) ²			
4.	× 15 cm × 8 <mark>cm requir</mark> ed						
	to construct a wa	1 × 5 m wh <mark>en 10% of i</mark> ts					
	volume is occupi	ed by mortar i	s:	[]			
	a) 7000	b) 6000	c) 5000	d) 4000			
5.	The longest rod t	12m × 9m × 8m is					
	a) 17 m	b) 12 m	c) 9 m	d) none			
6.	cubes of sides 2 cm						
	each are formed.	Number of cu	bes formed are	[]			
	a) 2	b) 4	c) 6	d) 8			
7.	The length of the longest rod that can be arranged in a cube of surface						
	area 96 sq.m is _			[]			
	a) $2\sqrt{3}$ m	b) $3\sqrt{3} \text{ m}$	c) $4\sqrt{3}$ m	d) 5 $\sqrt{3}$ m			



8. If	a cube has a dia	agonal of $7\sqrt{3}$ n	n then its volume is	[]			
	a) 343 m³	b) 433 m ³	c) 412 m ³	d) 216 m ³				
9. If each side of a cube is increased by three times then its volume is								
				[]			
	a) 3a ³	b) 8a ³	c) 27a ³	d) 6a ³				
10. If two cubes each of edge 15 m are joined to form a single cuboid,								
then the surface area of the new cuboid is : [
	a) 5760 m ²	b) 5670 m ²	c) 6057m ²	d) 6750 m ²				

Third Apple

