## **BAL BHARATI PUBLIC SCHOOL**

## Ganga Ram Hospital Marg FA (3) Subject : Mathematics Class – VIII Assignment – 9 <u>CHAPTER – 4 - CUBE & CUBE ROOTS</u>

Choos Q.1	e the co The co	orrect op ube root	otion (Q of –64	uestion is	No. 1 – 4)						
	(a)	2		(b)	-2	(c)	_4	(d)	4		
Q.2	36 is multiplied by x to get a perfect cube. The value of x is $(1)$										
	(a)	32		(b)	2	(c)	6	(d)	4		
Q.3	Which	n of the $1$	followi	ng is a s	quare numbe	r and also	a perfe	ct cube	?		
	(a)	144		(0)	125	(0)	10	(u)	04		
Q.4	The c	ube root	of 1.33	B1 is	0.011	<i>.</i>					
	(a)	1.1		(b)	0.011	(c)	0.11	(d)	1.01		
Q.5	Fill in (a) (b) (c)	<ul> <li>Fill in the blanks</li> <li>(a) The cube of an natural number is odd.</li> <li>(b) The cube of a integer is negative.</li> <li>(c) Cube of a natural number along with one zero ends with</li> </ul>									
0.6	Find t	he cube	of								
2.0	(a) 0.	8	(b) 4.	3	(c) -5.1	(d) -	$\frac{1}{8}$	(e)	$-\frac{3}{2}$		
Q.7	Find b (a) 13	by using Prime factorization whether the following are perfect cubes? 13284 (b) 91125 (c) 10648 (d) 17576 (e) 39304								?	
Q.8	Find the least number by which the following must be multiplied to make them perfect cubes.										
	(a)	1323		(b)	5400	(c)	14400		(d)	2560	
Q.9	Find t	he least	numbe	er by wł	nich the follo	wing mu	st be div	vided to	make	them perfect	
	(a)	53240		(b)	1024	(c)	2187		(d)	5400	
Q.10	Find t	he cube	root of								
	(a)	1331		(b)	3375	(c)	15625		(d)	35937	
	(e)	42875		(f)	13824	(g)	$18\frac{26}{27}$		(h)	$-\frac{343}{729}$	
	(i)	-0.001	331	(j)	0.002197						

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Q.11 Evaluate

(i)  $\sqrt[3]{-729}(-216)$  (ii)  $\sqrt[3]{-500}(\sqrt[3]{128})$  (iii)  $\sqrt[3]{-9261}{-15625}$ 

- Q.12 What is the edge of a cube whose volume is  $46656 \text{ cm}^3$ ?
- Q.13 Find the cube root of 216 x 1331.
- Q.14 A rectangular cubical piece of metal of dimensions 2cm x 3 cm x 4 cm is melted. Some more of the metal is added and it is made into a cube. The cube has integral measures for its sides. What is the minimum amount of metal that is added and what is the size of this cube.
- Q.15 To collect rain water, Maria made a cubical tank which can hold 91125 m<sup>3</sup> water. She uses this water for watering the plants of her garden.
  - (i) What is the height of the tank
  - (ii) By doing this, what is she promoting?