INDIAN SCHOOL AL WADI AL KABIR
Class VIII, Mathematics
WORKSHEET (MCQ& CASE STUDY) -CUBES & CUBE ROOTS

Multiple Choice Questions

Q.1.	The value of $\sqrt[3]{512 \times 64}$							
	A	64	B	46	C	32	D	24
Q.2.	The smallest number added to 725 to get a perfect cube is							
	A	4	B	7	C	15	D	8
Q.3.	The volume of a cube is 1331 cm^3. The length of the side is:							
	A	12	B	18	C	12	D	11
Q.4.	The unit place digit in cube 277 is							
	A	7	B	9	C	3	D	4
Q.5.	Which of the following numbers is not a perfect cube?							
	A	1331	B	125	C	729	D	10000
Q.6.	When the square of a number is subtracted from the cube of the same number, the result is 100. The number is. (CBQ)							
	A	2	B	5	C	4	D	1
Q.7.	The smallest number by which 88 should be divided to get a perfect cube is:							
	A	11	B	6	C	8	D	4
Q.8.	If $\sqrt[3]{175616}$ = 56, then $\sqrt[3]{175.616}$ (CBQ)							
	A	0.56	B	5.6	C	0.056	D	560
Q.9.	8232 = 2×2×2×7×7×7×3. Then smallest number by which 8232 to be multiplied to get a perfect cube is :							
	A	9	B	3	C	14	D	6
Q.10.	The number of digits in cube root of 4251528							
	A	4	B	6	C	3	D	5

Q11.	SOURCE BASED QUESTION: Varun and Alan were playing number cards. Each one in turns need to select a card and the other person need to ask questions based on the number on the number card selected							
I	How many perfect cubes exist between 1 and 1000?							
	A	5	B	10	C	15	D	20
II	The value of $6^3 - 5^3$ (CBQ)							
	A	91	B	95	C	105	D	101
III	The greatest three-digit number which is a perfect cube is:							
	A	891	B	961	C	729	D	792
IV	The value of $(\sqrt[3]{1331} - \sqrt[3]{125})^3$ (CBQ)							
	A	162	B	216	C	256	D	265
V	The cube root of 91125							
	A	35	B	55	C	65	D	45
Q.12	**CASE STUDY:** Smart watches are a big innovation in the wearable industry, performing too many functions. The most common now a days is to count the number of steps. This has a big impact on health. Gunjan noticed the number of steps she walked on her smart watch in the evening and found it to be 23328.Based on the information answer the following questions. 							
I.	Is 23328 s perfect cube?							
II	If not, find the smallest number by which 23328 to be multiplied to get a perfect cube.							
III.	Find the cube root of resulting number.							
IV.	Find the smallest number by which 23328 to be divided to get perfect cube, also find the cube root of the number obtained,							

ANSWER KEY							
1	C	**2**	A	**3**	D	**4**	C
5	D	**6**	B	**7**	A	**8**	3
9	A	**10**	C	**11**	I.B II. A III. C IV. B V. D	**12**	I. NO II. 2 III. 36 IV. 4,18