

INDIAN SCHOOL AL WADI AL KABIR Class VIII, Mathematics

WORKSHEET- CUBES AND CUBEROOTS (MCQ)

Multiple Choice questions											
Q.1.	W	Which of the following is not a perfect cube?									
	A	512	В	4096	С	216	D	367			
Q.2.	Fi	Find the smallest number by which 6561 should be multiplied to obtain a perfect cube?									
	A	4	В	3	С	8	D	2			
Q.3.	Th	The cube root of the number -258847									
	A	Is always negative.	В	May be positive.	С	Is always positive.	D	Cannot be determined.			
Q.4.	Th sm	The prime factorization of a number is $3 \times 3 \times 3 \times 3 \times 3 \times 5 \times 5 \times 5 \times 7 \times 7 \times 2$. The smallest number by which it should be multiplied to obtain a perfect cube is									
	Α	84	В	34	С	23	D	56			
Q.5.	Which letter best represents the location of $\sqrt[3]{343}$ on a number line? A = B = C = D -10 = 1 = 2 = 3 = 4 = 5 = 6 = 7										
	A	А	В	В	С	С	D	D			
Q.6.	The side of the cube whose volume is 17576 m ³ is										
	A	24m	В	26m	С	28m	D	36m			
Q.7.	Th	The smallest number which is to be subtracted from 221 to make it a perfect cube is:									
	A	5	В	6	С	9	D	4			
Q8.	Ho	How many perfect cube numbers are there between 1 and 1000?									
	A	998	В	10	С	8	D	9			
Q9	Th	The value of smallest positive integers n for which 864 x n is a perfect cube is									
	A	4	В	2	С	3	D	12			

ISWK/WORKSHEET/CLASS VIII/MCQ/CUBES AND CUBE ROOTS/ SHEENA CHANDY/2023-2024

Q10	$\sqrt[3]{729} \div \sqrt[3]{27}$								
	Α	1	В	2	С	3	D	4	
SOURCE BASED QUESTION									
Tomsy and Jay 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.									
			7	43) 44 171 21 3 4 1951, 3 4 1951, 3 6 2 38 6 9 23 45 64	12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1	88 99			
		Based on	the	nformation answe	er the	following question	ns.		
Q11	Jay wrote the prime factorization of a number as $2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 7 \times 7$. What would be smallest number by which the given factors should be divided so that the result obtained is a perfect cube?								
Q12	The digit in the ones place of the cube of a number having 7 at its ones place is								
Q13	The smallest three-digit number which is a perfect cube is								
Q14	The dimensions of a cuboid are 7 cm, 2 cm and 7 cm respectively. The number of identical cuboids required to form a cube is								
Q15	Tomsy asks Jay, "Think of a number". If the cube of that number is 157464, find the number.								
	CASE STUDY:								
	Marina was extremely afraid of darkness. When the lights went out, everything and every shadow appeared to her as the most terrible of monsters. Her parents with great patience explained to her every day that these things were not monsters.								
	Marina was diagonised to suffer from Nyctophobia.								
	Aunt Veronica tried to install a solar cuboidal lamp in the room.								
	Based on the above context, answer the following questions.								
Q 16	cubes is 27000, then the dimensions are							e sum of their	
	Α	30, 40, 50	В	60, 80, 100	С	5, 10, 15	D	15, 20, 25	

ISWK/WORKSHEET/CLASS VIII/MCQ/CUBES AND CUBE ROOTS/ SHEENA CHANDY/2023-2024

Q 17	If $\sqrt[3]{\frac{x}{y}} = \frac{2}{3}$, then $\frac{x}{y} =$									
	A	8 27		В	<u>8</u> 9	C	$\frac{4}{9}$	D	$\frac{4}{27}$	
Q 18	$\sqrt[3]{\sqrt[3]{8000} + \sqrt[3]{343}} =$									
	Α	20		В	3	C	7	D	27	
Q 19	If one side of a cube is 18 m in length, its volume is									
	A	2186m ³		В	1459m ³	C	1728m ³	D	5832m ³	
Q 20	The cube of $\frac{-6}{11}$ is									
	A	36 121		В	$\frac{-36}{121}$	C	$\frac{-216}{1331}$	D	216 1331	
ANSWERS										
1.	D		2.	В		3.	А	4.	А	
5.	D		6.	В		7.	A	8.	С	
9.	В		10.	C		11.	49	12.	3	
13.	12	5	14.	28		15.	54	16.	D	
17.	А		18.	В		19.	D	20.	С	