



# INDIAN SCHOOL AL WADI AL KABIR

**Class VIII**

## CUBES & CUBE ROOTS

### OBJECTIVE TYPE (1 Mark)

<b>Q.1.</b>	The unit place digit in cube of 28							
	<b>A</b>	8	<b>B</b>	4	<b>C</b>	2	<b>D</b>	6
<b>Q.2.</b>	The value of $(-9)^3$							
	<b>A</b>	729	<b>B</b>	-729	<b>C</b>	27	<b>D</b>	-27
<b>Q.3.</b>	The unit place digit of the cube root of 205379							
	<b>A</b>	3	<b>B</b>	7	<b>C</b>	9	<b>D</b>	1
<b>Q.4.</b>	If $243 = 3 \times 3 \times 3 \times 3 \times 3$ , the smallest number by which 243 to be multiplied to get a perfect cube							
	<b>A</b>	3	<b>B</b>	9	<b>C</b>	1	<b>D</b>	0
<b>Q.5.</b>	Which of the following is a perfect cube?							
	<b>A</b>	16000	<b>B</b>	8100	<b>C</b>	1250	<b>D</b>	64000
<b>Q.6.</b>	Cube root of product of two negative numbers is							
	<b>A</b>	Negative	<b>B</b>	Positive	<b>C</b>	Positive or negative	<b>D</b>	None of these
<b>Q.7.</b>	The cube root of (0.000001) is							
	<b>A</b>	0.1	<b>B</b>	0.01	<b>C</b>	0.001	<b>D</b>	0.0001
<b>Q.8</b>	$\sqrt[3]{27} \times \sqrt[3]{125}$							
	<b>A</b>	15	<b>B</b>	45	<b>C</b>	75	<b>D</b>	35
<b>Q.9</b>	Identify the cube of even numbers							
	<b>A</b>	9261	<b>B</b>	12167	<b>C</b>	753571	<b>D</b>	4096
<b>Q.10</b>	The smallest number to be added to 500 to get a perfect cube							
	<b>A</b>	10	<b>B</b>	12	<b>C</b>	25	<b>D</b>	100

FILL IN THE BLANKS	
<b>Q.11</b>	The cube of an odd number is always -----
<b>Q.12</b>	The cube root of (-1000) is -----
<b>Q.13</b>	The perfect cube lies between 60 and 70 is -----
<b>Q.14</b>	The smallest three digit number which is a perfect cube is -----
<b>Q.15</b>	The smallest number to be subtracted from 150 to get a perfect cube is -----
SECTION B (2 Marks)	
<b>Q.16</b>	Estimate the cube root of 32768
<b>Q.17</b>	Find the value of $\sqrt[3]{\frac{729 \times 8}{64 \times 27}}$
<b>Q.18</b>	The volume of a cube is 512m <sup>3</sup> . Find the length of its side.
<b>Q.19</b>	Check whether 2744 is a perfect cube or not.
<b>Q.20</b>	Preya makes a cuboid of plasticine of sides 5cm, 3cm and 3cm .How many such cuboids will she need to form a cube?
SECTION C (4 Marks)	
<b>Q.21</b>	<p><b>State True and False</b></p> <p>a) Cube of a two digit number may be a three digit number</p> <p>b) Cube of a number ending with zero has three zeroes at its extreme right.</p> <p>c) The cube of an even number may be odd or even</p> <p>d) A four digit number have four digits in its cube root.</p>
<b>Q.22</b>	Find the smallest number by which 6125 to be multiplied to get a perfect cube. Also find cube root of the number so formed.
<b>Q. 23</b>	Three numbers are in the ratio 2:3:5 .Sum of their cubes is 54880.Find the numbers (HOTS)
<b>Q.24</b>	Find the smallest number by which 5184 to be divided to get a perfect cube. Also find cube root of the number so formed
<b>Q.25</b>	Find cube root of 157464 by prime factorization.

## ANSWERS

<b>Answers</b>	<b>Q.1</b>	C	<b>Q.2</b>	B	<b>Q.3.</b>	C	<b>Q.4</b>	A
	<b>Q.5</b>	D	<b>Q.6</b>	B	<b>Q.7</b>	B	<b>Q.8</b>	A
	<b>Q.9</b>	D	<b>Q.10</b>	B	<b>Q.11</b>	Odd	<b>Q.12</b>	(-10)
	<b>Q.13</b>	64	<b>Q.14</b>	125	<b>Q.15</b>	25	<b>Q.16</b>	32
	<b>Q.17</b>	$\frac{3}{2}$	<b>Q.18</b>	8m	<b>Q.19</b>	Yes	<b>Q.20</b>	75
	<b>Q.21</b>	a. False b. True c. False d. False	<b>Q.22</b>	7,35	<b>Q.23</b>	14,21,35	<b>Q.24</b>	3,12
	<b>Q.25</b>	54						

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