

**BHARATIYA VIDYA BHAVAN'S V.M.PUBLIC SCHOOL  
VADODARA**

<b>Date :</b>	<b>Worksheet-Cube &amp;Cube Roots</b>	<b>Subject: Mathematics</b>
<b>Class : VIII</b>	<b>Name of the student:</b>	

1. Find the cube root of:

- (a) 4913                      (b)19683                      (c) 17576                      (d) 10648

2. Find the digit at the unit's place of the cubes of the following numbers:

- (a) 76                      (b) 21                      (c) 100

3. Write 'even' against those numbers whose cubes are even and 'odd' against those cubes which are odd:

- (a) 14274:\_\_\_\_\_ (b) 33557:\_\_\_\_\_ (c) 332233:\_\_\_\_\_ (d) 456456:\_\_\_\_\_

4 Find the smallest number by which 7803 must be multiplied so that the product is a cube number. Also find the cube root of the cubic number.

5. Without finding the cube root, identify the numbers which are perfect cubes

- (a) 2197000                      (b) 34300

6. Find the smallest number by which 26244 must be divided, so that it becomes a perfect cube. Also find the cube root of the number thus obtained.

7. Check if 26136 is a cube number. If not, find the smallest number by which 26136 must be multiplied so that the product is a cube. Also find the cube root of the number thus obtained.

8. Without evaluating the cubes, find the value of  $15^3 - 14^3$ .

9. Find the cube roots of the following numbers by prime factorization:

- a) 6400 b) 262144 c) 531441 d) 804357 e) 103823

10. The volume of a cube is 512 cubic cm. Find the length of its edge in mm.S