Atomic Energy Education Society – Distance Learning Programme

Class – **VIII** Subject – **Mathematics**

Chapter – **7**: **CUBES AND CUBE ROOTS**

 **Worksheet -3 (Module 3/3)**

1. **Fill in the blanks** :
2. The cube root of a number *x* is denoted by \_\_\_\_\_\_\_\_\_.
3. The number whose cube root is 7 is \_\_\_\_\_\_.
4. The cube root of 1331 is \_\_\_\_\_.
5. The cube root of a number ending in 6 will end in the digit \_\_\_\_\_\_\_.
6. The cube of 0.3 is \_\_\_\_\_\_\_\_\_\_.

**Do as directed:**

1. Using prime factorisation, find the cube root of 2197.
2. Find the length of each side of a cube, if its volume is 729 cm3.
3. Three numbers are in the ratio 1:2:3 and the sum of their cubes is

4500. Find the numbers.

1. Evaluate $\sqrt[3]{27}$ + $\sqrt[3]{64}+$ $\sqrt[3]{8}+ \sqrt[3]{343}$
2. Find the cube root of 5832 by prime factorisation method.
3. Using estimation method, find the cube root of 13824.
4. Find the cube root of 175616 through estimation method.
5. Divide $\sqrt[3]{64}$ by $\sqrt[3]{8}$.
6. Is 1331 x 343 a perfect cube? If so, what is its cube root?

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