## **Cube Root of a Number**

- A. Choose the correct answer:
  - 1. The cube root of 125 is.
    - a) 15 b) 5 c) 25 d) 10
  - 2. Which symbol is used to represent cube root.

a) 🗸	b) ∛
c) <sup>3</sup>	d) ∜
3. The cube root of a negative number is.	
a) Positive	b) Negat

- a) Positiveb) Negativec) Both positive and negatived) None
- 4. Cube root of  $\frac{1}{8}$  is. a)  $\frac{1}{2}$ c)  $\frac{1}{4}$ 5. Cube root of 64 is. a) 4 b) 6 c) 8 d) 3

## **B. Write the Missing Terms to Complete the Sentences:**

- 1. The cube root of 8 is \_\_\_\_\_.
- 2. The cube root of –27 is \_\_\_\_\_.

3. Cube root of a rational number is the cube root of \_\_\_\_\_ and \_\_\_\_\_ separately.

- 4. The cube root of 0 is \_\_\_\_\_.
- 5.  $\sqrt[3]{a \times b} = \sqrt[3]{a} \times$ \_\_\_\_\_.

C. Figure out the answers to these questions:

- 1. Find the cube root of 512.
- 2. Find the cube root of -1000.
- 3. Find the cube root of 729.
- 4. Find the cube root of  $\frac{1}{27}$ .

5. Find  $\sqrt[3]{-\frac{1}{8}}$ .

## D. Mark each sentence with a True ( ✓ ) or False (X):

- 1. Cube root of a positive number is positive.
- 2. Cube root of a negative number is positive.
- 3. Cube root of a number can be found by prime factorization method.
- 4. Cube root of a fraction is found by taking cube root of numerator and denominator separately.
- 5. Cube root of 216 is 8.

## E. Challenge yourself with these questions:

- 1. Find the cube root of 3375 using prime factorization.
- 2. Find the cube root of –512.
- 3. Write the steps to find cube root of a number by prime factorization method.
- 4. Find the cube root of  $\frac{1}{64}$ .
- 5. Find the cube root of 15625.