



CUBE & CUBE ROOTS

Worksheet 4

$$\sqrt[3]{a}$$

THE WAY TO GET STARTED IS TO QUIT TALKING AND BEGIN DOING

1 2 3 4

1. Which of the following is correct?

- A. Cube of a negative number is always positive.
 - B. Cube of a negative number is always negative.
 - C. Cube of a negative number may be positive or negative.
 - D. All of the above
-

2. Find the value of $125\sqrt[3]{a^6} - \sqrt[3]{125a^6}$ when $a = 2$

- A. 280
 - B. 382
 - C. 480
 - D. 560
-

3. Divide the number 26244 by the smallest number so that the quotient is a perfect cube. Also find cube root of the quotient.

- A. 24, 8
 - B. 36, 9
 - C. 38, 9
 - D. 42, 6
-

4. The cube of 5022 one's digit is

- A. 8
 - B. 9
 - C. 4
 - D. 6
-

5. If a number is written as $3 \times 3 \times 5 \times 3 \times 5 \times 7 \times 7$. Find the smallest number by which this is to be multiplied to form a perfect cube.

- A. 36
 - B. 35
 - C. 43
 - D. 34
-

6. From the following numbers, choose the numbers that are the cubes of odd numbers:
125, 343, 1728, 4096, 9261

- A. 125, 343, 1728, 4096
 - B. 343, 1728, 4096, 9261
 - C. 125, 343, 9261
 - D. all the above
-

7. Simplify $\sqrt[3]{\frac{16}{54}}$

- A. $\frac{2}{3}$
 - B. $\frac{2}{9}$
 - C. $\frac{8}{27}$
 - D. 1
-

8. Find the cube root of the number: -1728×216 .

- A. 72
 - B. -72
 - C. 27
 - D. -27
-

9. Find the cube root of the following rational number $\frac{686}{-3456}$.

- A. $\frac{5}{12}$
 - B. $\frac{-5}{12}$
 - C. $\frac{7}{12}$
 - D. $\frac{-7}{12}$
-

10. Find which of the following number is cube of rational number 0.001331.

- A. $\frac{1}{100}$
 - B. $\frac{11}{100}$
 - C. $\frac{1}{1000}$
 - D. $\frac{11}{1000}$
-



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Answer Key

- 1. B
- 2. D
- 3. B
- 4. A
- 5. B
- 6. C
- 7. A
- 8. B
- 9. D
- 10. B



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