

EduSahara™ Learning Center Assignment**Grade : Class VI, ICSE****Chapter : Powers and Roots****Name : Cube and Cube Root****Licensed To : Teachers and Students for non-commercial use**

1. Find the cube root of -64

(i) -5 (ii) -7 (iii) -1 (iv) -4 (v) -3

2. Find the cube root of $\frac{1}{8}$

(i) $\frac{1}{4}$ (ii) $(-\frac{1}{2})$ (iii) $\frac{1}{2}$ (iv) $\frac{3}{2}$ (v) 1

3. $\sqrt[3]{\frac{343}{1000}} =$

(i) $\frac{7}{12}$ (ii) $\frac{9}{10}$ (iii) $\frac{7}{10}$ (iv) $\frac{7}{8}$ (v) $\frac{1}{2}$

4. Simplify $\frac{\sqrt[3]{27} + \sqrt[3]{216}}{\sqrt[3]{8} - \sqrt[3]{343}} =$

(i) -3 (ii) $(-\frac{9}{5})$ (iii) $(-\frac{11}{5})$ (iv) $(-\frac{9}{7})$ (v) $(-\frac{7}{5})$

5. Find the cube root of 3^3

(i) 0 (ii) 12 (iii) 6 (iv) 9 (v) 3

6. Find the cube of 26

(i) 676 (ii) 17579 (iii) 17576 (iv) 679 (v) 17573

7. Find the cube root of 125

(i) 4 (ii) 7 (iii) 2 (iv) 5 (v) 6

8. Find the cube root of $\frac{27}{125}$

- (i) $\frac{3}{7}$ (ii) $\frac{1}{5}$ (iii) $\frac{3}{5}$ (iv) 1
-

9. $\sqrt[3]{\frac{1}{216}}$ =

- (i) $(-\frac{1}{6})$ (ii) $\frac{1}{2}$ (iii) $\frac{1}{8}$ (iv) $\frac{1}{6}$ (v) $\frac{1}{4}$
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10. Simplify $\frac{\sqrt[3]{27} + \sqrt[3]{1000}}{\sqrt[3]{216} - \sqrt[3]{729}}$ =

- (i) -13 (ii) $(-\frac{11}{3})$ (iii) -5 (iv) $(-\frac{13}{5})$ (v) $(-\frac{13}{3})$
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11. Find the cube root of 6^3

- (i) 39 (ii) 9 (iii) 3 (iv) 6 (v) 36
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12. Find the cube of 7

- (i) 346 (ii) 343 (iii) 340 (iv) 52 (v) 49
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Assignment Key

- 1) (iv)
- 2) (iii)
- 3) (iii)
- 4) (ii)
- 5) (v)
- 6) (iii)
- 7) (iv)
- 8) (iii)
- 9) (iv)
- 10) (v)
- 11) (iv)
- 12) (ii)