EduSahara™ Learning Center Assignment

Grade : Class VII, ICSE
Chapter : Powers and Roots
Name : Cubes and Cube Roots
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1. Find the cube root of 64

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

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2. Find the cube root of $(\frac{-8}{125})$

   (i) 0 (ii) $(\frac{-2}{3})$ (iii) $(\frac{-2}{5})$ (iv) $(\frac{-2}{7})$ (v) $(\frac{-4}{5})$

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3. Find the cube root of 1

   (i) 4 (ii) 1 (iii) (-2)

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4. Find the cube of 27

   (i) 19683 (ii) 729 (iii) 19680 (iv) 732 (v) 19686

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5. Which of the following is a perfect cube?

   (i) 999 (ii) 122 (iii) 30 (iv) 217 (v) 729

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6. Which of the following is not a perfect cube?

   (i) 8 (ii) 64 (iii) 125 (iv) 30 (v) 512

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7. The smallest number by which 392 must be multiplied so that the product is a perfect cube is?

   (i) 9 (ii) 6 (iii) 4 (iv) 8 (v) 7

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8. The smallest number by which 2187 must be divided so that the quotient is a perfect cube is?

   (i) 0 (ii) 2 (iii) 3 (iv) 6 (v) 4

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9. $\sqrt[3]{\frac{1}{8}}$ =

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

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10. $\sqrt[3]{1.7280}$ =

(i) 1.3 (ii) 1.4 (iii) 0.12 (iv) 1.1 (v) 1.2

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11. Simplify $\dfrac{\sqrt[3]{1728} + \sqrt[3]{729}}{\sqrt[3]{1331} - \sqrt[3]{343}}$ =

(i) $\frac{21}{6}$ (ii) $\frac{21}{4}$ (iii) $\frac{19}{4}$ (iv) $\frac{23}{4}$ (v) $\frac{21}{2}$

Assignment Key

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