CUBE & CUBE ROOTS

Worksheet 3

$\sqrt[3]{a}$

SUCCESS IS THE SUM OF SMALL EFFORTS, REPEATED

1 2 3 4

1. By what least number 3600 be divided to make it a perfect cube?

A. 9   B. 50   C. 300   D. 450

2. Find the one's digit of the cube of 53.

A. 3   B. 4   C.7   D. 9

3. Evaluate: $\sqrt[3]{0.729} \div \sqrt{0.0009} \times (0.25)^{\frac{1}{2}} - \sqrt[3]{3.375}$

A. 135   B. 1.35   C. 0.135   D. 13.5

4. Cube root of a number when divided by the smallest prime number gives square of the smallest prime number. Find the number.

A. 512   B. 8   C. 64   D. 125

5. Find the smallest number by which 375 must be multiplied to obtain a perfect cube.

A. 7   B. 11   C. 9   D. 5

6. If $\sqrt[3]{-2744} \div \sqrt[3]{0.008} = x$, then the value of x is _____.

A. 70   B. –70   C. 14   D. –14

7. Evaluate the cube root of: $\frac{686}{1024}$

8. Given that $\sqrt[3]{99} = 4.626$, find the value of $\sqrt[3]{792}$.

9. The volume of a cubical box is 13.824 cubic meters. Find the length of each side of the box.

10. If $x^3 = \frac{9261}{42875}$ and $y^3 = \frac{729}{2197}$, then x + y is _____.

A. $\frac{388}{455}$ B. $\frac{588}{455}$ C. $\frac{571}{455}$ D. $\frac{9}{65}$

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Answer Key

1. D
2. C
3. B
4. A
5. C
6. B
7. 7/10
8. 9.252
9. 2.4 meters
10. A