

Chapter—7

Cubes and Cube Roots

1. Find the cube of 15.
2. Is 3087 a perfect cube?
3. If $72x$ is a perfect cube then $x =$ _____
4. Write ones digit of cube root of 2197.
5. 17 is a cube root of _____.
6. The cube root of $2^3 \times 3^3 \times 3^3 \times 5^3$ is _____.
7. Find the cube root of—
 - (i) 729
 - (ii) 64×27
 - (iii) 2744
 - (iv) 64000
 - (v) 1.331
8. Find the cube root of 140×2450 .
9. Find the smallest number by which 256 must be multiplied so that the product is a perfect cube.
10. If $x^3 = 0.008$ then $x =$ _____
11. Find the side of the cubical box whose volume is 9261 m^3 .
12. If $a^3 - 1 = 1330$ then $a =$ _____
13. Find the cube root of $\frac{1331}{1728}$.
14. If $\sqrt[3]{\frac{x}{y}} = \frac{2}{3}$ then $\frac{x}{y} =$ _____
15. Three numbers are in the ratio $1 : 2 : 3$ and the sum of their cubes is 288. Find the numbers.