

Subject: - Mathematics

PRACTICE PAPER

CBSE-8th

Topic: - Cube & Cube Roots

1. If 216 is a perfect cube? What is that number cube is 216?
2. What is the smallest number by which 392 must be multiplied so that the product is a perfect cube?
3. What is the smallest number by which 3087 must be divided so that the quotient is a perfect cube?
4. Prove that if a number is doubled, then its cube is eight times the cube of the given number.
5. Using column method find the cubes of the following natural number: -
a) 45 b) 87
6. Verify it: If a divides b, then a^3 divides b^3 .
7. Three numbers are to one another 2 : 3 : 4. The sum of their cubes is 33957. Find the numbers.
8. The volume of a cube is 9261000 m^3 . Find the side of the cube.
9. Find the cube roots of each of the following: -
a) $(-125) \times (-3375)$ b) $(-216) \times (1728)$
10. Evaluate: - $\sqrt[3]{1372} \times \sqrt[3]{1458}$
11. Find the cube root of 0.003375
12. The volume of a cubical box is 32.768 cubic meters.
13. Fill in the blanks: -
a) $\sqrt[3]{125 \times 27} = 3 \times \underline{\hspace{2cm}}$ b) $\sqrt[3]{\hspace{1cm}} = \sqrt[3]{4} \times \sqrt[3]{5} \times \sqrt[3]{6}$
14. Find the volume of the cube, one face of which has an area of 64 m^2 .
15. Find the volume of a cube whose surfaces area is 384 m^2 .