

1. Evaluate: $\sqrt[3]{-a^6} \times \sqrt[3]{b^6}$.
2. Simplify : $\sqrt[3]{-125 + 44}$.
3. Evaluate: $\sqrt[3]{\frac{-27}{216}}$.
4. What is the digit at the unit's place in the cube of 12542?
5. Evaluate: $\sqrt[3]{300} \times \sqrt[3]{90}$.
6. Find the value of ' X ' if $\sqrt[3]{\frac{216}{x}} = \frac{6}{13}$.
7. Case study
 Three solid cubes of side 3cm, 4cm and 5cm are melted and transformed into a single cube.
 Choose the correct option:
 - (i) What will be the side of the new cube?
 a. 5cm b. 6cm c. 7cm d. 4cm
 - (ii) What will be the volume of the new cube?
 a. 216cm³ b. 125cm³ c. 1000cm³ d. 800cm³
4. What will be the increased volume, if the edge of the cube is doubled. If the edge are ' X ' cm is ' Y ' cm³.
5. What will be the volume of cube whose edge measures 0.072cm.
6. Find the edge of a cube whose volume is 9261cm³.
7. Find the smallest number by which 8640 must be divided so that the quotient is a perfect cube. Also find the cube root of the number so obtained.
8. A cuboid measuring 75cm × 10cm × 36cm is melted to form a cube. Find the length of the edge of the cube.
9. Three numbers are in the ratio of 2:3:4. The sum of their cubes is 2673. Find the numbers.
10. A cube is formed by joining 27 cubes of edge 2cm each. Find the volume of the cube so obtained.

