

Board – ICSE

Class –VIII

Topic – Cube and Cube Root

- Evaluate the cube root: a) $\sqrt[3]{9261}$ b) $\sqrt[3]{\frac{27}{64}}$
- Find the cube roots of: a) 60 b) 0.05
- Test whether the given number is a perfect cube or not: a) 729 b) 3380
- Find the smallest number by which 8788 must be divided so that the quotient is a perfect cube.
- Find the smallest number by which 11979 must be multiplied so that the product is a perfect cube.
- Evaluate: $\sqrt[3]{1352} \times \sqrt[3]{1625}$.
- What is the smallest number by which 108 must be divided so that the quotient is a perfect cube?
- Find the smallest number by which 15379 must be divided so that the quotient is a perfect cube.
- Write true (T) or false (F) for the following statements:
 - 392 is a perfect cube.
 - 8640 is not a perfect cube.
 - No perfect cube can end with exactly two zeros.
 - There is no perfect cube which ends in 4.
- Find the smallest number that must be subtracted from those numbers which are not perfect cubes so as to make them perfect cubes. What are the corresponding cube roots?
 - 130
 - 345

Answer

- a) 21 b) $\frac{3}{4}$
- a) 216000 b) 0.000125
- a) perfect cube b) not a perfect cube.
- Divide the number by 4 so that the quotient is a perfect cube.
- Multiply the number by 3 for it to be a perfect cube.
- 130
- Divide the number by 3 so that the quotient is a perfect cube.
- Divide the number by 7 so that the quotient is a perfect cube.
- a) F b) T c) T d) F
- a) 5 is the number to be subtracted from 130 to make it a perfect cube. 125 is the perfect cube.
b) 2 is the number to be subtracted from 345 to make it a perfect cube. 343 is the perfect cube.