<u>INTERNATIONAL INDIAN SCHOOL</u> <u>BURAIDAH</u>

Worksheet For The Academic Year 2024-25

CLASS: VIII SUBJECT: Mathematics DATE: 27/10/2024 LESSON-7 Cubes & Cube roots

1) Cube numbers are obtained by multiplying a number by itself
times.
2) Find the cubes of: a) 21 b) 40 c) 302
3) Which of the following are perfect cubes?
a) 64 b) 108 c) 1728 d) 243
4) Find the smallest number by which 392 must be multiplied so that
the product is a perfect cube?
5) What is the smallest number by which 8640 must be divided so that
the quotient is a perfect cube?
6) If one side of a cube is 16m, find its volume.
7) Find the cube root of the following using prime factorisation method
a) 1728 b) 1331 c) 4096 d) 2744
8) Find the smallest number by which 2560 has to be multiplied to get a
perfect cube.
9) Find the least number by which 3087 has to be divided to get a
perfect cube.
10) Evaluate: $(\frac{2}{3})^3$
11) Which of the following are cubes of even numbers?
a) 8000 b) 1331 c) 216 d) 729 e) 3375
12) Find the least number by which the following numbers must be
multiplied to make it a perfect cube:
a) 196 b) 1372 c) 1323

13) Find cubes of: a) 0.21 b) 0.07 c) 1.6

- 14) What is the least number by which the following numbers should be divided to make it a perfect cube?
 - a) 1600 b) 28561
- 15) Find the cube root of the following numbers using estimation method:
 - a) 6859 b) 2197 c) 551368 d) 226981

ANSWERS

4) 7	7) c) 16 d) 14	14) a) 25 b) 13
5) 5	8) 25	15) a) 19 b) 13
6) 4096 m ³	9) 9	15) c) 82 d) 61
7) a) 12 b) 11	12) a) 14 b) 2 c) 7	, , ,