ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Arithmetic   **Work sheet 8**

Marks:15   **Cubes and Cube roots**

Date:8.2.21

Answer all the following questions(1×15=15)

1. Which of the following is correct?
    I. Cube of a negative number is always positive.
    II. Cube of a negative number is always negative.
    III. Cube of a negative number may be positive or negative.
    IV. All of the above

2. If the digit in one's place of a number is 2, then the last digit of its cube will be:
    I. 2
    II. 4
    III. 6
    IV. 8

3. If the digit in one's place of a number is 3, then the last digit of its cube will be:
    I. 3
    II. 6
    III. 7
    IV. 9

4. If the digit in one's place of a number is 6, then the last digit of its cube will be:
    I. 6
    II. 3
    III. 2
    IV. 8

5. The volume of a cubical box is 64 cm^3. Which of the following is its side?
    I. 2 cm
    II. 4 cm
    III. 6 cm
    IV. 8 cm

6. Which of the following is a perfect cube?
    I. 10000
    II. 243
    III. 343
    IV. 270000

7. If a number is doubled then which of the following is a correct statement?
   I. Its cube is two times the cube of the given number.
   II. Its cube is three times the cube of the given number.
   III. Its cube is six times the cube of the given number.
   IV. Its cube is eight times the cube of the given number.

8. Which of the following is equal to its own cube?
   I. -1
   II. -2
   III. -3
   IV. -9

9. Which of the following is the cube root of 27000?
   I. 30
   II. 300
   III. 3000
   IV. None of these

10. Which of the following is the cube root of -64/243?
    I. 7/4
    II. -7/4
    III. 4/7
    IV. -4/7

11. The one's digit of the cube of 53 is:

    A. 9
    B. 3
    C. 7
    D. 1

12. The prime factorisation of 64 is:

    A. 2 x 2 x 2
    B. 4 x 4 x 4
    C. 8 x 8 x 8
    D. None of the above

13. Which of the following is not a perfect cube?

    A. 216
    B. 1000
    C. 243
    D. 1331

14. By what number should 81 be divided to get a perfect cube?

    A. 3
    B. 6
    C. 7
    D. 9

15. By what number should we divide 135 to get a perfect cube?

A. 3
B. 5
C. 7
D. 9

Indranil Ghosh