

**BCM SCHOOL, BASANT AVENUE DUGRI ROAD, LUDHIANA**

**MATHS ASSIGNMENT-2 (MAY 2023-24)**

**CLASS – VIII**

**TOPICS – CUBES AND CUBE ROOTS**

**DIRECT AND INVERSE PROPORTION**

**MCQ'S**

1. Cube of 0.6 is
  - a) 0.036
  - b) 0.216
  - c) 0.0216
  - d) 0.00216
2. The volume of a cubical box is 0.027 cubic metre. The length of each side of the box is
  - a) 0.03 m
  - b) 0.3 m
  - c) 0.003 m
  - d) 0.33 m
3. A car travels 480 km in 64 litres of petrol. In 40 litres of petrol, it can cover a distance of
  - a) 200 km
  - b) 300 km
  - c) 260 km
  - d) 320 km

**ASSERTION REASONING**

4. Assertion(A): The cube root of -1.331 is -1.1  
Reason( R ):The cube root of a negative perfect cube is negative.
  - a) Both A and R are true and R is correct explanation of A
  - b) Both A and R are true but R is not the correct explanation of A
  - c) A is true but R is false.
  - d) A is false but R is true.
5. Find cube root of 0.729
6. The three numbers are in the ratio 2:3:4 and the sum of their cubes is 12375. Find the numbers.
7. In a hostel, 100 students had provisions for 130 days. After 10 days , 20 students left the hostel. How long would the remaining food last ?

**CASE STUDY**

8. A school is an educational institution designed to provide learning spaces and learning environments for the teaching of students under the direction of teachers. Sheela goes

to her school by cycle at an average speed of 12km/hr in 20 minutes and Syna goes to her school by motor cycle at an average speed of 40km/hr. Sheela wants to reach her school in 15 minutes.

Answer the following questions:

- i) What should be the average speed of Sheela to reach the school in 15 mins?
- ii) What is the distance of school from Sheela's house?
- iii) If the speed is 60km/hr, how much distance is covered in 45 mins?