

Class Test on Cube and cube roots (Class VIII)

(Full Marks: 12)

Answer the following questions:

2x4=8

- 1) By what number would you multiply 231525 to make a perfect cube?
- 2) Simplify:

$$\frac{3\sqrt[3]{13824}}{2\sqrt[3]{-15625}} + \frac{2\sqrt[3]{-13824}}{\sqrt[3]{5832}}$$

- 3) Divide the number 26244 by the smallest number so the quotient is a perfect cube. Also, find the cube root of the quotient.
- 4) Cube root of a number when divided by the smallest prime number gives square of the smallest prime number, find the number.

Choose the correct option:

1x4=4

- 5) Which of the following is equal to its own cube?
a. -1 b. -2 c. -3 d. -9
- 6) If a number is doubled then which of the following is a correct statement?
a. Its cube is two times the cube of the given number.
b. Its cube is three times the cube of the given number.
c. Its cube is six times the cube of the given number.
d. Its cube is eight times the cube of the given number.
- 7) If the digit in one's place of a number is 6, then the last digit of its cube will be:
a. 6 b. 3 c. 2 d. 8
- 8) Which of the following is correct?
a. Cube of a negative number is always positive.
b. Cube of a negative number is always negative.
c. Cube of a negative number may be positive or negative.
d. All of the above
