



# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



**Sub: Arithmetic**  
**Duration: 40 Min**

**Class: 7**  
**Worksheet Solution 56**  
**CUBES AND CUBE ROOTS**

**Date: 13.07.20**  
**Full Marks: 15**

**Choose the correct options:**

1. What is  $2^3$ ?

- (a) **8**
- (b) 6
- (c) 4
- (d) 16

2. What number, n, cubed is equal to 512?

$$n^3 = 512$$

- (a) **8**
- (b) 171
- (c) 7
- (d) 134,217,728

3. The number 512 is a perfect cube because  $512 = 8^3$ .

Which number below is also a perfect cube?

- (a) **125**
- (b) 300
- (c) 150
- (d) 256

4. Which number is both a perfect square and a perfect cube?

- (a) **64**
- (b) 27
- (c) 81
- (d) 16

5.  $\sqrt[3]{-8}$

- (a) 2
- (b) **-2**
- (c)  $\pm 2$
- (d) None

6. Select all perfect cubes

2, 8, 27, 64, 9

- (a) 2, 8, 27
- (b) **8, 27, 64**
- (c) 27, 64, 9
- (d) 2, 9, 64

7.  $\sqrt[3]{27}$

- (a) **3**
- (b) 2
- (c) 4
- (d) 9

8. The volume of a cube is 1,000 cm<sup>3</sup>. What is the length of each side of the cube in cm?

- (a) 1
- (b) 10**
- (c) 100
- (d) 300

9. What number, n, cubed is equal to -216?

$$n^3 = -216$$

- (a) -6**
- (b) 6
- (c) -7
- (d) 72

10. Find the cube root of 1331.

- (a) 11**
- (b) 21
- (c) 31
- (d) 41

11. What is 5<sup>3</sup>?

- (a) 125**
- (b) 25
- (c) 15
- (d) 625

12. What is (-9)<sup>3</sup>?

- (a) -729**
- (b) 729
- (c) 27
- (d) -27

13. The number 343 is a perfect cube because  $343 = 7^3$ .

Which number below is also a perfect cube?

- (a) 1728**
- (b) 3010
- (c) 1501
- (d) 2516

14. What number, n, cubed is equal to 64?

$$n^3 = 64$$

- (a) 4**
- (b) 2
- (c) 8
- (d) 262,144

15. What number, n, cubed is equal to 729?

$$n^3 = 729$$

- (a) 8
- (b) 171
- (c) 9**
- (d) 134,217,728