



# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



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

**Class: 7**  
**Worksheet 31**  
**Square Root and Cube Root**

**Date: 28.06.21**  
**Full Marks: 15**

**Choose the correct options:**

1. What is  $\sqrt{49}$ 
  - a. 6
  - b. 7
  - c. 8
  - d. 9
2. Solve for p when  $p^2 = 100$ .
  - a. 1,000
  - b.  $\pm 10$
  - c. 0.10
  - d.  $1/10$
3. Solve for x when  $x^2 = 144$ 
  - a.  $\pm 4$
  - b.  $\pm 11$
  - c.  $\pm 12$
  - d.  $\pm 14$
4. Solve for x when  $x = (3/4)^2$ 
  - a.  $x = 4/3$
  - b.  $x = 9/4$
  - c.  $x = 9/16$
  - d.  $x = 3/16$
5. Solve for x when  $x^3 = 125$ 
  - a. 5
  - b. 10
  - c. 15
  - d. 25
6. Solve for x when  $x^3 = 1/8$ 
  - a.  $x = 2$
  - b.  $x = 1/2$
  - c.  $x = 4$
  - d.  $x = 16$
7. If  $x^3 = -27$ , then x equals
  - a. -3
  - b. -9
  - c. +3 and -3
  - d. +9 and -9
8. A cube with side length s has a volume of 64 cubic units. What is the length of the side of the cube?
  - a. 32 units
  - b. 16 units
  - c. 8 units
  - d. 4 units
9. A square with side length s has an area of 0.81 square units. What is the length of the side of the square?
  - a. 0.9 units
  - b. 0.6561 units
  - c. 0.405 units
  - d. 0.3 units

10. The volume of a cube is  $1,000 \text{ cm}^3$ . What is the length of each side of the cube?
- 1 cm
  - 10 cm
  - 100 cm
  - 300 cm
11. Select the answer with all perfect squares.
- 144, 9, 50, 75, 81, 100
  - 9, 50, 75, 81, 100
  - 9, 50, 81, 100
  - 9, 81, 100
12. Solve for  $x$  when  $\sqrt{x} = 2^2$
- 2
  - 4
  - 8
  - 16
13. What is the square root of 81?
- 7
  - 8
  - 9
  - 10
14.  $\sqrt{16}$
- 8
  - 3
  - 4
  - 6
15. What is  $-\sqrt{25}$ ?
- 5
  - 5
  - $\pm 5$
  - 25