



ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

Class: 7

Worksheet Solution 31

Square Root and Cube Root



Sub: Arithmetic

Duration: 40 Min

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. ± 10**
 - c. 0.10
 - d. 1/10
3. Solve for x when $x^2 = 144$
 - a. ± 4
 - b. ± 11
 - c. ± 12**
 - d. ± 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?
- a. 1 cm
 - b. 10 cm**
 - c. 100 cm
 - d. 300 cm
11. Select the answer with all perfect squares.
- a. -144, 9, 50, 75, 81, 100
 - b. 9, 50, 75, 81, 100
 - c. 9, 50, 81, 100
 - d. 9, 81, 100**
12. Solve for x when $\sqrt{x} = 2^2$
- a. 2
 - b. 4
 - c. 8
 - d. 16**
13. What is the square root of 81?
- a. 7
 - b. 8
 - c. 9**
 - d. 10
14. $\sqrt{16}$
- a. 8
 - b. 3
 - c. 4**
 - d. 6
15. What is $-\sqrt{25}$?
- a. -5**
 - b. 5
 - c. ± 5
 - d. -25