

CHAPTER-1 | A Square and A Cube

QUIZ
PART-11

1. What is a perfect cube?

- A. A number multiplied by 2
- B. A number multiplied by itself three times
- C. A number added three times
- D. A square number only (B)

Explanation: A perfect cube is written as $n \times n \times n$.

2. What is 2^3 ?

- A. 4
- B. 6
- C. 8
- D. 12 (C)

Explanation: $2^3 = 2 \times 2 \times 2 = 8$.

3. What is 3^3 ?

- A. 9
- B. 18
- C. 27
- D. 36 (C)

Explanation: $3^3 = 3 \times 3 \times 3 = 27$.

4. How many 1 cm cubes make a cube of side 2 cm?

- A. 4
- B. 6
- C. 8
- D. 10 (C)

Explanation: Number of unit cubes = $2^3 = 8$.

5. Is 9 a perfect cube?

- A. Yes
- B. No
- C. Sometimes
- D. Cannot say (B)

Explanation: 9 is not equal to $n \times n \times n$ for any whole number n .

6. What is the cube of 4?

- A. 16
- B. 32
- C. 64
- D. 81 (C)

Explanation: $4^3 = 4 \times 4 \times 4 = 64$.

7. What does n^3 mean?

- A. $n + n + n$
- B. $n \times 3$
- C. $n \times n \times n$
- D. $n \div 3$ (C)

Explanation: n^3 means multiplying n by itself three times.

8. How many unit cubes are in a cube of edge length 3 units?

- A. 9
- B. 18
- C. 27
- D. 36 (C)

Explanation: Number of unit cubes = $3^3 = 27$.

9. What is $11 \times 11 \times 11$?

- A. 1111
- B. 1221
- C. 1331
- D. 1441 (C)

Explanation: $11 \times 11 \times 11 = 1331$.

10. Which number is a perfect cube?

- A. 12
- B. 16
- C. 27
- D. 45 (C)

Explanation: $27 = 3 \times 3 \times 3$, so it is a perfect cube.