# CHAPTER-1 | A Square and A Cube

QUIZ PART-12

1. What is $12^3$?
   A. 1328
   B. 1428
   C. 1728
   D. 1828 (C)

*Explanation :* $12^3 = 12 \times 12 \times 12 = 1728$.

2. What is the unit digit of $1252^3$?
   A. 2
   B. 4
   C. 6
   D. 8 (D)

*Explanation:* Only the unit digit matters. $2^3 = 8$.

3. What is the unit digit of $2026^3$?
   A. 2
   B. 4
   C. 6
   D. 8 (C)

*Explanation:* Only the unit digit matters. $6^3 = 216$, so the unit digit is 6.

4. What is the cube of 70?
   A. 34300
   B. 343000
   C. 3430
   D. 434000 (B)

*Explanation:* $70^3 = 7^3 \times 1000 = 343000$.

5. Which digit can be the unit digit of a cube?
   A. 2
   B. 11
   C. 15
   D. 20 (A)

*Explanation :* A unit digit must be a single digit, and cubes can end in 2.

6. What is $13^3$?
   A. 2197
   B. 2179
   C. 1972
   D. 2279 (A)

*Explanation :* $13^3 = 13 \times 13 \times 13 = 2197$.

7. What is $14^3$?
   A. 2474
   B. 2744
   C. 2447
   D. 2724 (B)

*Explanation :* $14^3 = 14 \times 14 \times 14 = 2744$.

8. Can a perfect cube end with exactly two zeroes?
   A. Yes
   B. No
   C. Sometimes
   D. Cannot say (B)

*Explanation :* A cube ending in zero must have zeroes in groups of three.

9. What is $20^3$?
   A. 4000
   B. 6000
   C. 8000
   D. 10000 (C)

*Explanation :* $20^3 = 20 \times 20 \times 20 = 8000$.

10. What is the learning outcome of this part?
    A. Square root
    B. Patterns in Cube
    C. Addition of cubes
    D. Area of cube (B)

*Explanation :* This part focuses on patterns in cube numbers.