

CHAPTER-1 | A Square and A Cube

QUIZ
PART-03

1. What is the units digit of 144^2 ?

- A. 2
- B. 4
- C. 6
- D. 8 (C)

Explanation: $4^2 = 16$, so the units digit is 6.

2. Which number is not a perfect square?

- A. 1024
- B. 1296
- C. 1937
- D. 3136 (C)

Explanation: 1937 ends in 7, so it cannot be a perfect square.

3. Which digit can be the units digit of a perfect square?

- A. 2
- B. 3
- C. 7
- D. 9 (D)

Explanation: Perfect squares can end in 0, 1, 4, 5, 6, or 9.

4. Which digit cannot be the units digit of a perfect square?

- A. 0
- B. 1
- C. 5
- D. 8 (D)

Explanation: Perfect squares never end in 2, 3, 7, or 8.

5. What is 23^2 ?

- A. 429
- B. 529
- C. 629
- D. 729 (B)

Explanation: $23 \times 23 = 529$.

6. What is 27^2 ?

- A. 529
- B. 625
- C. 676
- D. 729 (D)

Explanation: $27 \times 27 = 729$.

7. Which of the following is a perfect square?

- A. 26
- B. 36
- C. 46
- D. 56 (B)

Explanation: $36 = 6^2$.

8. Can we decide that every number ending in 6 is a square?

- A. Yes
- B. No
- C. Always
- D. Only if it is even (B)

Explanation: 16 and 36 are squares, but 26 is not.

9. A number ending in 3 is:

- A. A perfect square
- B. Not a perfect square
- C. Always even
- D. Always odd (B)

Explanation: Perfect squares do not end in 3.

10. If a number ends with an odd number of zeros, it is a perfect square.

- A. True
- B. False
- C. Sometimes true
- D. Cannot say (B)

Explanation: Perfect squares ending in zeros have an even number of zeros.