

CHAPTER-1 | A Square and A Cube

QUIZ
PART-09

1. Which number is a perfect square?

- A. 2032
- B. 2048
- C. 1027
- D. 1089

(D)

Explanation : $1089 = 33^2$.

2. Which number is not a perfect square?

- A. 1089
- B. 441
- C. 1027
- D. 15625

(C)

Explanation: 1027 ends in 7, so it is not a perfect square.

3. What is the last digit of 108^2 ?

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

(B)

Explanation: $8^2=64$, so the last digit is 4.

4. What is the last digit of 292^2 ?

- A. 1
- B. 2
- C. 4
- D. 6

(C)

Explanation: $2^2=4$, so the last digit is 4.

5. What is 126^2 , if $125^2 = 15625$?

- A. $15625 + 126$
- B. $15625 + 262$
- C. $15625 + 253$
- D. $15625 + 251$

(D)

Explanation : $126^2=125^2+125+126$.

6. What is the side of a square with area 441 m^2 ?

- A. 19 m
- B. 20 m
- C. 21 m
- D. 22 m

(C)

Explanation : $\sqrt{441}=21$.

7. Which number ends with 8 and is not a perfect square?

- A. 2048
- B. 1089
- C. 441
- D. 15625

(A)

Explanation : Perfect squares do not end in 8.

8. What is $\sqrt{1089}$?

- A. 31
- B. 32
- C. 33
- D. 34

(C)

Explanation : $33^2 = 1089$.

9. Which expression equals 126^2 ?

- A. $15625+251$
- B. $15625+126$
- C. $15625+512$
- D. $15625+262$

(A)

Explanation : Consecutive squares differ by the sum of the two numbers.

10. Which square has last digit 6?

- A. 108^2
- B. 292^2
- C. 64^2
- D. 125^2

(C)

Explanation : $4^2=16$, so 64^2 ends in 6.