

CHAPTER-1 | A Square and A Cube

QUIZ
PART-08

1. What is the square root of 289?

- A. 15
B. 16
C. 17
D. 18 (C)

Explanation: $17^2=289$.

2. Is 141 a perfect square?

- A. Yes
B. No
C. Cannot say
D. Only if even (B)

Explanation: 141 is not the square of any integer.

3. Is 1156 a perfect square?

- A. Yes
B. No
C. Maybe
D. Not possible (A)

Explanation: $34^2=1156$

4. Is 2800 a perfect square?

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

Explanation: Its prime factors cannot be grouped completely in pairs.5. Which number is closest to $\sqrt{250}$?

- A. 14
B. 15
C. 16
D. 17 (C)

Explanation: $15^2=225$ and $16^2=256$, so $\sqrt{250}$ is closest to 16.6. What is the maximum integer side length of a square cloth with area 125 cm^2 ?

- A. 10 cm
B. 11 cm
C. 12 cm
D. 15 cm (B)

Explanation: $11^2=121$ and $12^2=144$, so maximum side is 11 cm.7. Can a 15 cm square be cut from cloth of area 125 cm^2 ?

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

Explanation: A 15 cm square needs 225 cm^2 , more than 125 cm^2 .

8. Square root by approximation means finding:

- A. Exact cube
B. Nearest possible value
C. Only even number
D. Prime number (B)

Explanation: Approximation gives a nearby value when exact root is not an integer.

9. Which perfect square is near 250?

- A. 225
B. 289
C. 400
D. 441 (B)

Explanation: 289 is one of the nearby perfect squares shown in the game context.

10. Prime factorisation helps to check:

- A. Perfect square
B. Only odd number
C. Only triangle
D. Cube only (A)

Explanation: A number is a perfect square when all prime factors form pairs.