

CHAPTER-1 | A Square and A Cube

QUIZ
PART-051. What is $4-1$?

- A. 1
B. 2
C. 3
D. 4 (C)

Explanation : The difference between 2^2 and 1^2 is 3.

2. What is $16-9$?

- A. 5
B. 6
C. 7
D. 8 (C)

Explanation: $4^2-3^2=16-9=7$.

3. What is $1+3+5+7+9$?

- A. 15
B. 20
C. 25
D. 30 (C)

Explanation: Sum of first 5 odd numbers is $5^2=25$.

4. What is $1+3+5+7+9+11$?

- A. 25
B. 36
C. 49
D. 64 (B)

Explanation: Sum of first 6 odd numbers is $6^2=36$.

5. Which number is the 65th odd number?

- A. 127
B. 128
C. 129
D. 131 (C)

Explanation : nth odd number $=2n-1$, so $2 \times 65-1=129$.

6. Which number is the 37th even number?

- A. 76
B. 74
C. 77
D. 72 (B)

Explanation : nth even number $=2n$, so $2 \times 37=74$.

7. What is the value of

$$1+3+5+7+9+11+13+15+17+19+21+23?$$

- A. 121
B. 144
C. 134
D. 124 (B)

Explanation : Sum of first 12 odd numbers is $12^2=144$.

8. If subtracting consecutive odd numbers from a number ends at 0, the number is:

- A. Prime
B. Perfect square
C. Even only
D. Odd only (B)

Explanation : Perfect squares become 0 after subtracting consecutive odd numbers.

9. In $25-1-3-5-7-9$, the final result is:

- A. 0
B. 1
C. 3
D. 5 (A)

Explanation : 25 becomes 0 after subtracting 1,3,5,7,9.

10. What is the nth odd number?

- A. $n+1$
B. $2n$
C. $2n-1$
D. n^2 (C)

Explanation : Odd numbers follow 1,3,5,..., so nth odd number is $2n-1$.