

CHAPTER-6 | ALGEBRA PLAY

QUIZ
PART-03

1. In a number pyramid, each block is formed by:
- A. Multiplying the two blocks below
 - B. Adding the two blocks below
 - C. Subtracting the two blocks below
 - D. Dividing the two blocks below (B)

Explanation : Each upper block equals the sum of the two adjacent blocks below it.

2. In the pyramid 1, 9, 4 at the bottom, what is the value of the left middle block?
- A. 8
 - B. 9
 - C. 10
 - D. 13 (C)

Explanation: $1 + 9 = 10$.

3. In the same pyramid, what is the value of the right middle block?
- A. 10
 - B. 11
 - C. 12
 - D. 13 (D)

Explanation: $9 + 4 = 13$.

4. What is the top number of the pyramid with middle numbers 10 and 13?
- A. 20
 - B. 21
 - C. 22
 - D. 23 (D)

Explanation: $10 + 13 = 23$.

5. In a two-level pyramid with bottom numbers 6 and 2, the top number is:
- A. 6
 - B. 7
 - C. 8
 - D. 12 (C)

Explanation : $6 + 2 = 8$.

6. In the pyramid with bottom row 3, 4, 3, what is the left middle number?
- A. 6
 - B. 7
 - C. 8
 - D. 9 (B)

Explanation : $3 + 4 = 7$.

7. In the same pyramid, what is the top number?
- A. 11
 - B. 12
 - C. 14
 - D. 15 (C)

Explanation : Middle row = 7 and 7, so top = $7 + 7 = 14$.

8. If the bottom row is 5, 4, 5, 0, what is the left block of the second layer?
- A. 7
 - B. 8
 - C. 9
 - D. 10 (C)

Explanation : $5 + 4 = 9$.

9. In the assessment pyramid, the missing middle-layer number is:
- A. 12
 - B. 11
 - C. 14
 - D. 18 (B)

Explanation : Since $4 + 6 = 10$ and top is 21, the missing number is $21 - 10 = 11$.

10. In the assessment pyramid, which pair of bottom numbers produces the missing middle-layer value?
- A. 4 and 6
 - B. 6 and 5
 - C. 4 and 5
 - D. 10 and 21 (B)

Explanation : The missing middle block is formed by $6 + 5 = 11$.