CHAPTER-10 | The Other Side of Zero

QUIZ PART-18

1. What is the required border sum in the last grid?
   A. +4
   B. -2
   C. -4
   D. 0 (C)

Explanation : The question clearly states that the border sum should be -4.

2. Border sum refers to the sum of
   A. only middle numbers
   B. only corner numbers
   C. all numbers inside grid
   D. numbers on the outer boundary (D)

Explanation: Border sum includes only the outer boundary numbers of the grid.

3. Can a grid be filled in more than one way to get the same border sum?
   A. No B. Yes
   C. Only once D. Never (B)

Explanation: The question itself asks to find more than one way, so multiple solutions are possible.

4. Why are multiple solutions possible?
   A. Only one number is fixed
   B. Many numbers can change while keeping same sum
   C. No numbers are used
   D. Only positive numbers are allowed (B)

Explanation: Different combinations of numbers can give the same total sum.

5. Which type of numbers are used in the grid?
   A. Only natural numbers
   B. Only fractions
   C. Integers
   D. Only even numbers (C)

Explanation : The chapter is about integers, including positive and negative numbers.

6. If border sum is fixed, what can still change?
   A. Only border numbers
   B. Only center number
   C. Arrangement of numbers
   D. Nothing (C)

Explanation : Numbers can be rearranged or changed while keeping the same total.

7. Which of these can help achieve the same border sum?
   A. Using opposite integers
   B. Using only large numbers
   C. Using only zero
   D. Using fractions (A)

Explanation : Opposite integers (like +5 and -5) can balance the sum.

8. The grid shown contains which given numbers?
   A. 7 and -5
   B. 5 and 3
   C. 2 and -2
   D. 10 and -10 (A)

Explanation : The grid includes 7 and -5 as given values.

9. What is the main idea of this exercise?
   A. Multiplication
   B. Division
   C. Exploring different integer combinations
   D. Geometry (C)

Explanation : It focuses on forming different integer combinations with the same result.

10. Which grids can be filled in multiple ways?
    A. Only fixed grids
    B. Grids with flexible values
    C. Only empty grids
    D. Only square grids (B)

Explanation : Grids where numbers are not fully fixed allow multiple solutions.