

CHAPTER-10 | The Other Side of Zero

QUIZ
PART-22

1. Which card is the smallest integer among (+1), (+7), (+18), (-5), (-2), (-9)?
- A. (+1)
B. (-2)
C. (-5)
D. (-9) (D)

Explanation: Among the given integers, -9 is the least value.

2. What is the value of (+18) + (+1) - (+7) - (-2)?
- A. +12
B. +14
C. +10
D. +16 (B)

Explanation: Subtracting -2 means adding 2. So, $18 + 1 - 7 + 2 = 14$.

3. Which expression gives a value closest to -30 using the given cards?
- A. (-9) - (+18) - (+7)
B. (+18) + (+7) + (+1)
C. (-2) + (+1) + (+7)
D. (+18) - (-9) (A)

Explanation: $(-9) - 18 - 7 = -34$, which is very close to -30. The other options are much farther.

4. A positive integer minus a negative integer is always
- A. positive
B. negative
C. zero
D. not fixed (A)

Explanation: -Subtracting a negative is the same as adding a positive, so the result is always positive.

5. A positive integer plus a negative integer can be
- A. only positive
B. only negative
C. positive, negative, or zero
D. only zero (C)

Explanation: The result depends on the sizes of the two integers. It can be positive, negative, or zero.

6. A negative integer plus a negative integer is always
- A. positive
B. zero
C. negative
D. not possible (C)

Explanation: Adding two negative integers always gives a negative integer.

7. A negative integer minus a negative integer can be
- A. only positive
B. only negative
C. only zero
D. positive, negative, or zero (D)

Explanation: For example, $(-2) - (-5) = 3$, $(-5) - (-2) = -3$, and $(-4) - (-4) = 0$.

8. A negative integer minus a positive integer is always
- A. positive
B. negative
C. zero
D. even (B)

Explanation: A negative number minus a positive number becomes more negative.

9. In the token pattern + + + - -, what is the value of one complete group?
- A. 0
B. 1
C. 2
D. 3 (B)

Explanation: Three plus tokens and two minus tokens give $3 - 2 = 1$.

10. If 100 tokens follow the pattern + + + - -, what is the total value of the string?
- A. 10
B. 15
C. 20
D. 25 (C)

Explanation: Each group has 5 tokens and value 1. So $100 \div 5 = 20$ groups, and total value = 20.