

CHAPTER-10 | The Other Side of Zero

QUIZ
PART-11

1. In the token model, a + token represents

- A. a negative number
- B. a positive number
- C. zero only
- D. a fraction (B)

Explanation: The + token stands for a positive value in the token model.

2. In the token model, a – token represents

- A. a positive number
- B. zero
- C. a negative number
- D. a line (C)

Explanation: The – token stands for a negative value.

3. $(+6) + (+4)$ equals

- A. +2
- B. +10
- C. -10
- D. -2 (B)

Explanation: Adding 6 positive tokens and 4 positive tokens gives 10 positive tokens.

4. $(-3) + (-2)$ equals

- A. +5
- B. -5
- C. +1
- D. -1 (B)

Explanation: Adding 3 negative tokens and 2 negative tokens gives 5 negative tokens.

5. $(+5) + (-7)$ equals

- A. +2
- B. -2
- C. +12
- D. -12 (B)

Explanation: Five positive and seven negative tokens make 5 zero pairs, leaving 2 negative tokens.

6. $(-2) + (+6)$ equals

- A. +4
- B. -4
- C. +8
- D. -8 (A)

Explanation: Two negative tokens cancel with two of the positive tokens, leaving 4 positive tokens.

7. A zero pair is made by

- A. two positive tokens
- B. two negative tokens
- C. one positive and one negative token
- D. three tokens (C)

Explanation: One + token and one – token cancel each other to make zero.

8. In Question 2(a), the tokens shown are 3 positive and 5 negative. After cancelling zero pairs, the result is

- A. +2
- B. -2
- C. +8
- D. -8 (B)

Explanation: Three positive and three negative tokens cancel, leaving 2 negative tokens.

9. In Question 2(b), the tokens shown are 6 positive and 3 negative. After cancelling zero pairs, the result is

- A. +3
- B. -3
- C. +9
- D. -9 (A)

Explanation: Three positive and three negative tokens cancel, leaving 3 positive tokens.

10. What is the main idea used in this part?

- A. measuring angles
- B. drawing circles
- C. cancelling zero pairs
- D. folding shapes (C)

Explanation: The token model works by cancelling zero pairs to find the final result.