

CHAPTER-10 | The Other Side of Zero

QUIZ
PART-20

1. Which integer comes between 0 and -7?

- A. 1
B. -3
C. 3
D. 7 (B)

Explanation: The integers between 0 and -7 are -1, -2, -3, -4, -5, -6.

2. How many integers lie between -4 and 4?

- A. 6
B. 7
C. 8
D. 9 (B)

Explanation: The integers are -3, -2, -1, 0, 1, 2, 3. So there are 7 integers.

3. Which number is in increasing order between -8 and -15?

- A. -7
B. -10
C. -16
D. 0 (B)

Explanation: The integers between -15 and -8 are -14, -13, -12, -11, -10, -9.

4. Which of these can be the sum of three integers equal to -8?

- A. $-2 + -3 + -3$
B. $2 + 3 + 3$
C. $-1 + -1 + -1$
D. $4 + 0 + 0$ (A)

Explanation: $-2 + -3 + -3 = -8$. The question asks for any three numbers whose sum is -8.

5. What is the smallest possible sum on the two given dice?

- A. -12
B. -10
C. -8
D. -6 (B)

Explanation: The smallest number on each die is -5, so the smallest sum is $-5 + -5 = -10$.

6. What is the largest possible sum on the two given dice?

- A. 10
B. 11
C. 12
D. 13 (C)

Explanation: The largest number on each die is 6, so the largest sum is $6 + 6 = 12$.

7. Which sum is not possible using the two dice with faces -1, 2, -3, 4, -5, 6?

- A. 1
B. 3
C. 5
D. 7 (B)

Explanation: Possible sums include 1, 5, 7, but 3 cannot be formed by adding any two face values from the given dice.

8. What is $8 - 13$?

- A. -5
B. 5
C. -21
D. 21 (A)

Explanation: $8 - 13 = 8 + (-13) = -5$.

9. What is $(-13) - (-8)$?

- A. -21
B. -5
C. 5
D. 21 (B)

Explanation: Subtracting a negative means adding the positive: $-13 - (-8) = -13 + 8 = -5$.

10. What is $13 - (-8)$?

- A. 5
B. -5
C. 21
D. -21 (C)

Explanation: Subtracting a negative becomes addition: $13 - (-8) = 13 + 8 = 21$.