

## CHAPTER-10 | The Other Side of Zero

QUIZ  
PART-21

1. What pattern is used in the sequence -40, -34, -28, -22, ... ?

- A. Add 4  
B. Add 5  
C. Add 6  
D. Subtract 6 (C)

**Explanation :** Each term increases by 6: -40 to -34, -34 to -28, and -28 to -22.

2. What is the next term after -22 in the sequence?

- A. -16  
B. -18  
C. -14  
D. -20 (A)

**Explanation:** The pattern is +6, so  $-22 + 6 = -16$ .

3. In the sequence 3, 4, 2, 5, 1, 6, 0, 7, ... what comes next?

- A. -1  
B. 8  
C. 1  
D. -2 (A)

**Explanation:** Two patterns run together: 3, 2, 1, 0, -1 and 4, 5, 6, 7, 8.

4. After 0, 7 in that same sequence, what is the next pair?

- A. 1, 8  
B. -1, 8  
C. -1, 6  
D. -2, 8 (B)

**Explanation:** -The first pattern decreases by 1 and the second increases by 1, so the next pair is -1, 8.

5. In the sequence \_\_, \_\_, 12, 6, 1, -3, -6, \_\_, \_\_, \_\_, what is the rule?

- A. Subtract 6, then subtract 5, then subtract 4...  
B. Add 6 each time  
C. Multiply by 2  
D. Subtract 3 each time (A)

**Explanation :** 12 to 6 is -6, 6 to 1 is -5, 1 to -3 is -4, and -3 to -6 is -3.

6. What number comes just before 12 in that sequence?

- A. 18  
B. 17  
C. 19  
D. 20 (B)

**Explanation :** Going backward, the differences increase: before 12 comes 17, because  $17 - 5 = 12$ .

7. What number comes after -6 in that sequence?

- A. -8  
B. -8  
C. -9  
D. -10 (A)

**Explanation :** The next subtraction is 2, so  $-6 - 2 = -8$ .

8. If the present year is 2026, what year was it 150 years ago?

- A. 1876  
B. 1776  
C. 1976  
D. 1826 (A)

**Explanation :**  $2026 - 150 = 1876$ . The chapter question asks to find the year from the present year.

9. If the present year is 2026, what year was it 2200 years ago?

- A. 175 BCE  
B. 174 BCE  
C. 175 CE  
D. 174 CE (B)

**Explanation :** 2200 years before 2026 goes past 0. Since there is no year 0, the correct year is 174 BCE.

10. What will be the year 320 years after 680 BCE?

- A. 360 BCE  
B. 360 CE  
C. 1000 BCE  
D. 1000 CE (A)

**Explanation :** Moving 320 years forward from 680 BCE gives 360 BCE.