

### Pattern Puzzles – Pack 47

**Puzzle 1.** What comes next in the sequence?

5	15	9	6	12	21	17	11	19	27	25	16	?
---	----	---	---	----	----	----	----	----	----	----	----	---

- A) 25      B) 27      C) 33      D) 26

**Puzzle 2.** What comes next in the sequence?

3	2	4	11	19	36	68	125	?
---	---	---	----	----	----	----	-----	---

- A) 229      B) 231      C) 233      D) 238

**Puzzle 3.** What comes next in the sequence?

2	2	6	11	20	38	70	129	?
---	---	---	----	----	----	----	-----	---

- A) 238      B) 237      C) 239      D) 268

**Puzzle 4.** What comes next in the sequence?

9	9	14	14	11	14	18	19	13	19	22	24	?
---	---	----	----	----	----	----	----	----	----	----	----	---

- A) 18      B) 16      C) 15      D) 24

**Puzzle 5.** What number replaces the question mark in the grid?

9	2	25
11	3	35
12	7	?

- A) 46      B) 32      C) 30      D) 45

Pattern Puzzles – Pack 47

Puzzle 6. What comes next in the sequence?

9	10	2	5	17	18	10	11	25	26	18	17	?
---	----	---	---	----	----	----	----	----	----	----	----	---

- A) 34      B) 32      C) 33      D) 28

Puzzle 7. What number replaces the question mark in the grid?

3	3	2
4	24	13
14	1	?

- A) 18      B) 22      C) 21      D) 13

Puzzle 8. What number replaces the question mark in the grid?

1	2	6
5	1	19
2	4	?

- A) 19      B) 30      C) 14      D) 31

Puzzle 9. What number replaces the question mark in the grid?

3	1	12
4	1	31
5	10	?

- A) 35      B) 21      C) 14      D) 34

Puzzle 10. What comes next in the sequence?

7	12	14	10	12	15	21	17	17	18	28	24	?
---	----	----	----	----	----	----	----	----	----	----	----	---

- A) 21      B) 22      C) 23      D) 20

## Answer Key

1. **D) 26**  
Four interleaved arithmetic series (period 4):
2. **B) 231**  
Rule:  $a(n) = a(n-1)+a(n-2)+a(n-3)+2$ .
3. **A) 238**  
Rule:  $a(n) = a(n-1)+a(n-2)+a(n-3)+1$ .
4. **C) 15**  
Four interleaved arithmetic series (period 4):
5. **D) 45**  
Row sums are perfect squares: 36, 49, 64.
6. **C) 33**  
Four interleaved arithmetic series (period 4):
7. **C) 21**  
Column sums are triangular numbers: 21, 28, 36.
8. **B) 30**  
Row sums are perfect squares: 9, 25, 36.
9. **D) 34**  
Row sums are perfect squares: 16, 36, 49.
10. **B) 22**  
Four interleaved arithmetic series (period 4):