

## Pattern Puzzles – Pack 31

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

9	15	13	22	17	29	?
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A) 24	B) 36	C) 22	D) 21
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**Puzzle 2.** What comes next in the sequence?

4	13	40	121	364	1093	?
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A) 1094	B) 3281	C) 3279	D) 3280
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**Puzzle 3.** What comes next in the sequence?

27	31	34	38	41	45	48	?
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A) 51	B) 55	C) 52	D) 60
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**Puzzle 4.** What comes next in the sequence?

26	35	38	47	50	59	62	?
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A) 70	B) 74	C) 65	D) 71
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**Puzzle 5.** What comes next in the sequence?

4	19	64	199	604	1819	?
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A) 5457	B) 5465	C) 1826	D) 5464
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**Puzzle 6.** What comes next in the sequence?

25	37	44	56	63	75	82	?
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- A) 101      B) 94      C) 89      D) 93

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

3	6	12
3	6	12
3	6	?

- A) 14      B) 12      C) 11      D) 8

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

2	6	18
4	16	64
2	6	?

- A) 14      B) 9      C) 18      D) 32

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

3	9	27
1	4	16
3	6	?

- A) 48      B) 12      C) 18      D) 8

**Puzzle 10.** What comes next in the sequence?

10	16	24	34	46	60	?
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- A) 74      B) 76      C) 78      D) 92

## Answer Key

1. **D) 21**

Two interleaved series – odd: +4, even: +7.

6. **B) 94**

Sequence: 25, 37, 44, 56, 63, 75, 82, ...

2. **D) 3280**

Sequence: 4, 13, 40, 121, 364, 1093, ...

7. **B) 12**

Each row is a geometric sequence. Row 3 ratio:  $\times 2$ .

3. **C) 52**

Sequence: 27, 31, 34, 38, 41, 45, 48, ...

8. **C) 18**

Each row is a geometric sequence. Row 3 ratio:  $\times 3$ .

4. **D) 71**

Sequence: 26, 35, 38, 47, 50, 59, 62, ...

9. **B) 12**

Each row is a geometric sequence. Row 3 ratio:  $\times 2$ .

5. **D) 5464**

Sequence: 4, 19, 64, 199, 604, 1819, ...

10. **B) 76**

Sequence: 10, 16, 24, 34, 46, 60, ...