

## Pattern Puzzles – Pack 11

**Puzzle 1.** What number replaces the question mark in the grid?

4	12	36
4	12	36
2	4	?

- A) 6
  B) 8
  C) 18
  D) 12

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

10	14	24	28	38	42	52	?
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- A) 66
  B) 62
  C) 55
  D) 56

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

14	29	52	83	122	169	?
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- A) 216
  B) 232
  C) 224
  D) 264

**Puzzle 4.** What number replaces the question mark in the grid?

1	2	4
3	6	12
3	9	?

- A) 18
  B) 27
  C) 12
  D) 23

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

3	9	27
3	12	48
3	9	?

- A) 12
  B) 48
  C) 30
  D) 27

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**Puzzle 6.** What comes next in the sequence?

3	8	15	24	35	48	?
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A) 62	B) 65	C) 56	D) 63
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**Puzzle 7.** What comes next in the sequence?

3	9	21	45	93	189	?
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A) 381	B) 378	C) 192	D) 382
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**Puzzle 8.** What comes next in the sequence?

11	17	16	24	21	31	?
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A) 27	B) 38	C) 28	D) 26
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**Puzzle 9.** What comes next in the sequence?

4	10	13	19	22	28	31	?
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A) 34	B) 37	C) 36	D) 40
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**Puzzle 10.** What comes next in the sequence?

17	11	26	15	35	19	?
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A) 39	B) 44	C) 45	D) 23
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## Answer Key

1. **B) 8**

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

6. **D) 63**

Formula:  $2 \times n(n+1)/2 + 1n$ .

2. **D) 56**

Sequence: 10, 14, 24, 28, 38, 42, 52, ...

7. **A) 381**

Sequence: 3, 9, 21, 45, 93, 189, ...

3. **C) 224**

Sequence: 14, 29, 52, 83, 122, 169, ...

8. **D) 26**

Two interleaved series – odd: +5, even: +7.

4. **B) 27**

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

9. **B) 37**

Sequence: 4, 10, 13, 19, 22, 28, 31, ...

5. **D) 27**

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

10. **B) 44**

Two interleaved series – odd: +9, even: +4.