

## Pattern Puzzles – Pack 8

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

16	19	30	33	44	47	58	?
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A) 69	B) 72	C) 60	D) 61
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**Puzzle 2.** What comes next in the sequence?

6	20	48	104	216	440	?
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A) 889	B) 448	C) 880	D) 888
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**Puzzle 3.** What comes next in the sequence?

8	5	18	13	28	21	?
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A) 38	B) 29	C) 36	D) 39
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**Puzzle 4.** What comes next in the sequence?

10	15	22	31	42	55	?
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A) 72	B) 59	C) 70	D) 68
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**Puzzle 5.** What comes next in the sequence?

8	4	15	11	22	18	?
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A) 30	B) 29	C) 23	D) 25
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**Puzzle 6.** What number replaces the question mark in the grid?

2	6	18
2	6	18
4	12	?

- A) 15     
  B) 41     
  C) 36     
  D) 39

**Puzzle 7.** What comes next in the sequence?

6	13	24	39	58	81	?
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- A) 104     
  B) 97     
  C) 112     
  D) 108

**Puzzle 8.** What comes next in the sequence?

7	17	30	46	65	87	?
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- A) 115     
  B) 84     
  C) 112     
  D) 108

**Puzzle 9.** What comes next in the sequence?

17	26	32	41	47	56	62	?
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- A) 77     
  B) 70     
  C) 71     
  D) 68

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

9	13	18	22	27	31	36	?
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- A) 40     
  B) 41     
  C) 45     
  D) 39

## Answer Key

1. **D) 61**

Sequence: 16, 19, 30, 33, 44, 47, 58, ...

6. **C) 36**

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

2. **D) 888**

Sequence: 6, 20, 48, 104, 216, 440, ...

7. **D) 108**

Sequence: 6, 13, 24, 39, 58, 81, ...

3. **A) 38**

Two interleaved series – odd:  $+10$ , even:  $+8$ .

8. **C) 112**

Formula:  $3 \times n(n+1)/2 + 4n$ .

4. **C) 70**

Sequence: 10, 15, 22, 31, 42, 55, ...

9. **C) 71**

Sequence: 17, 26, 32, 41, 47, 56, 62, ...

5. **B) 29**

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

10. **A) 40**

Sequence: 9, 13, 18, 22, 27, 31, 36, ...