

## Pattern Puzzles – Pack 52

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

1	3	9
3	12	48
2	4	?

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

2	13	46	145	442	1333	?
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**Puzzle 3.** What number replaces the question mark in the grid?

4	8	16
2	6	18
4	8	?

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

10	25	46	73	106	145	?
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**Puzzle 5.** What comes next in the sequence?

11	15	25	29	39	43	53	?
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**Puzzle 6.** What number replaces the question mark in the grid?

3	6	12
1	4	16
3	6	?

- A) 9
  B) 8
  C) 48
  D) 12

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

13	24	39	58	81	108	?
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- A) 159
  B) 135
  C) 143
  D) 139

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

2	8	20	44	92	188	?
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- A) 381
  B) 376
  C) 380
  D) 192

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

10	16	23	29	36	42	49	?
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- A) 62
  B) 55
  C) 56
  D) 54

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

14	31	56	89	130	179	?
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- A) 228
  B) 236
  C) 190
  D) 244

## Answer Key

1. **B) 8**

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

6. **D) 12**

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

2. **A) 4006**

Sequence: 2, 13, 46, 145, 442, 1333, ...

7. **D) 139**

Sequence: 13, 24, 39, 58, 81, 108, ...

3. **B) 16**

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

8. **C) 380**

Sequence: 2, 8, 20, 44, 92, 188, ...

4. **A) 190**

Sequence: 10, 25, 46, 73, 106, 145, ...

9. **B) 55**

Sequence: 10, 16, 23, 29, 36, 42, 49, ...

5. **A) 57**

Sequence: 11, 15, 25, 29, 39, 43, 53, ...

10. **B) 236**

Sequence: 14, 31, 56, 89, 130, 179, ...