

## Pattern Puzzles – Pack 32

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

4	12	36
3	6	12
2	4	?

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

17	9	20	18	23	27	?
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**Puzzle 3.** What comes next in the sequence?

6	19	58	175	526	1579	?
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**Puzzle 4.** What comes next in the sequence?

7	19	24	36	41	53	58	?
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**Puzzle 5.** What number replaces the question mark in the grid?

2	6	18
3	9	27
1	3	?

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

7	14	24	31	41	48	58	?
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- A) 75      B) 68      C) 64      D) 65

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

1	2	4
1	2	4
2	4	?

- A) 13      B) 6      C) 8      D) 10

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

5	12	8	19	11	26	?
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- A) 15      B) 18      C) 14      D) 33

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

4	8	7	17	10	26	?
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- A) 14      B) 35      C) 13      D) 19

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

6	23	74	227	686	2063	?
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- A) 6195      B) 6194      C) 6189      D) 2068

## Answer Key

1. **A) 8**  
Each row is a geometric sequence. Row 3 ratio:  $\times 2$ .
2. **C) 26**  
Two interleaved series – odd:  $+3$ , even:  $+9$ .
3. **C) 4738**  
Sequence: 6, 19, 58, 175, 526, 1579, ...
4. **B) 70**  
Sequence: 7, 19, 24, 36, 41, 53, 58, ...
5. **D) 9**  
Each row is a geometric sequence. Row 3 ratio:  $\times 3$ .
6. **D) 65**  
Sequence: 7, 14, 24, 31, 41, 48, 58, ...
7. **C) 8**  
Each row is a geometric sequence. Row 3 ratio:  $\times 2$ .
8. **C) 14**  
Two interleaved series – odd:  $+3$ , even:  $+7$ .
9. **C) 13**  
Two interleaved series – odd:  $+3$ , even:  $+9$ .
10. **B) 6194**  
Sequence: 6, 23, 74, 227, 686, 2063, ...