

Pattern Puzzles – Pack 38

Puzzle 1. What comes next in the sequence?

6	15	28	45	66	91	?
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- A) 124 B) 102 C) 120 D) 116

Puzzle 2. What comes next in the sequence?

6	24	78	240	726	2184	?
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- A) 6558 B) 6552 C) 2190 D) 6559

Puzzle 3. What comes next in the sequence?

3	20	7	25	11	30	?
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- A) 35 B) 10 C) 15 D) 16

Puzzle 4. What comes next in the sequence?

23	31	38	46	53	61	68	?
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- A) 83 B) 73 C) 75 D) 76

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

4	12	36
1	3	9
2	4	?

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

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Puzzle 6. What number replaces the question mark in the grid?

4	12	36
2	8	32
1	3	?

- A) 12
 B) 16
 C) 9
 D) 6

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

1	2	4
3	12	48
4	8	?

- A) 10
 B) 17
 C) 64
 D) 16

Puzzle 8. What comes next in the sequence?

20	16	24	21	28	26	?
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- A) 26
 B) 32
 C) 31
 D) 33

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

2	6	18
2	4	8
1	3	?

- A) 6
 B) 9
 C) 8
 D) 4

Puzzle 10. What number replaces the question mark in the grid?

4	8	16
3	9	27
2	6	?

- A) 12
 B) 9
 C) 17
 D) 18

Answer Key

1. **C) 120**

Sequence: 6, 15, 28, 45, 66, 91, ...

6. **C) 9**

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

2. **A) 6558**

Sequence: 6, 24, 78, 240, 726, 2184, ...

7. **D) 16**

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

3. **C) 15**

Two interleaved series – odd: $+4$, even: $+5$.

8. **B) 32**

Two interleaved series – odd: $+4$, even: $+5$.

4. **D) 76**

Sequence: 23, 31, 38, 46, 53, 61, 68, ...

9. **B) 9**

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

5. **A) 8**

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

10. **D) 18**

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