

Pattern Puzzles – Pack 44

Puzzle 1. What comes next in the sequence?

23	33	42	52	61	71	80	?
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- A) 90 B) 92 C) 89 D) 99

Puzzle 2. What number replaces the question mark in the grid?

4	12	36
3	12	48
1	2	?

- A) 2 B) 4 C) 16 D) 6

Puzzle 3. What comes next in the sequence?

7	9	10	13	13	17	?
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- A) 20 B) 17 C) 16 D) 21

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

1	2	4
4	8	16
1	3	?

- A) 7 B) 9 C) 4 D) 6

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

4	12	36
3	9	27
1	3	?

- A) 11 B) 6 C) 7 D) 9

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

2	6	18
1	3	9
2	6	?

- A) 9
 B) 22
 C) 18
 D) 20

Puzzle 7. What comes next in the sequence?

13	26	45	70	101	138	?
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- A) 174
 B) 181
 C) 175
 D) 187

Puzzle 8. What comes next in the sequence?

4	12	28	60	124	252	?
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- A) 256
 B) 509
 C) 508
 D) 504

Puzzle 9. What comes next in the sequence?

17	3	26	12	35	21	?
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- A) 30
 B) 49
 C) 44
 D) 45

Puzzle 10. What comes next in the sequence?

5	23	77	239	725	2183	?
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- A) 2191
 B) 6557
 C) 6558
 D) 6549

Answer Key

1. **A) 90**

Sequence: 23, 33, 42, 52, 61, 71, 80, ...

6. **C) 18**

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

2. **B) 4**

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

7. **B) 181**

Sequence: 13, 26, 45, 70, 101, 138, ...

3. **C) 16**

Two interleaved series – odd: +3, even: +4.

8. **C) 508**

Sequence: 4, 12, 28, 60, 124, 252, ...

4. **B) 9**

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

9. **C) 44**

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

5. **D) 9**

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

10. **B) 6557**

Sequence: 5, 23, 77, 239, 725, 2183, ...