

Pattern Puzzles – Pack 51

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

3	5	4
4	3	11
8	8	?

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Puzzle 2. What comes next in the sequence?

2	24	108	320	750	1512	2744	?
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Puzzle 3. What number replaces the question mark in the grid?

7	6	3
7	7	5
7	2	?

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

6	3	3
6	6	6
3	2	?

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

2	2	12
7	8	4
3	7	?

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Puzzle 6. What comes next in the sequence?

4	29	126	367	848	1689	3034	?
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- A) 4379
 B) 5051
 C) 5027
 D) 5075

Puzzle 7. What comes next in the sequence?

2	28	126	368	850	1692	3038	?
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- A) 5080
 B) 5032
 C) 5056
 D) 4384

Puzzle 8. What comes next in the sequence?

9	38	133	360	809	1594	2853	?
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- A) 4112
 B) 4724
 C) 4772
 D) 4748

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

8	3	5
7	3	12
2	5	?

- A) 27
 B) 21
 C) 20
 D) 15

Puzzle 10. What comes next in the sequence?

8	29	110	317	740	1493	2714	?
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- A) 4565
 B) 4541
 C) 3935
 D) 4589

Answer Key

1. **A) 8**

Row sums form arithmetic sequence: 12, 18, 24.

6. **B) 5051**

4th diffs: 24 (constant – quartic sequence).

2. **B) 4608**

4th diffs: 24 (constant – quartic sequence).

7. **C) 5056**

4th diffs: 24 (constant – quartic sequence).

3. **A) 13**

Row sums form arithmetic sequence: 16, 19, 22.

8. **D) 4748**

4th diffs: 24 (constant – quartic sequence).

4. **A) 19**

Row sums form arithmetic sequence: 12, 18, 24.

9. **B) 21**

Row sums form arithmetic sequence: 16, 22, 28.

5. **A) 12**

Row sums form arithmetic sequence: 16, 19, 22.

10. **A) 4565**

4th diffs: 24 (constant – quartic sequence).