

Pattern Puzzles – Pack 57

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

6	2	4
7	3	5
3	6	?

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Puzzle 2. What comes next in the sequence?

7	34	125	346	787	1562	2809	?
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Puzzle 3. What comes next in the sequence?

4	31	130	373	856	1699	3046	?
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Puzzle 4. What comes next in the sequence?

3	20	97	300	719	1468	2685	?
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Puzzle 5. What number replaces the question mark in the grid?

5	4	9
6	4	10
6	8	?

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

7	3	3
2	2	12
5	4	?

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

8	8	5
4	7	13
2	5	?

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Puzzle 8. What comes next in the sequence?

4	28	114	328	760	1524	2758	?
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Puzzle 9. What number replaces the question mark in the grid?

4	5	5
7	7	4
5	6	?

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

6	7	3
4	7	9
6	8	?

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Answer Key

1. **A) 9**

Row sums form arithmetic sequence: 12, 15, 18.

6. **A) 10**

Row sums form arithmetic sequence: 13, 16, 19.

2. **C) 4690**

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

7. **B) 20**

Row sums form arithmetic sequence: 21, 24, 27.

3. **B) 5065**

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

8. **A) 4624**

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

4. **B) 4532**

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

9. **D) 11**

Row sums form arithmetic sequence: 14, 18, 22.

5. **D) 8**

Row sums form arithmetic sequence: 18, 20, 22.

10. **B) 10**

Row sums form arithmetic sequence: 16, 20, 24.