

Pattern Puzzles – Pack 47

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

5	3	6
7	2	11
3	8	?

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

5	2	15
3	4	20
4	7	?

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Puzzle 3. What number replaces the question mark in the grid?

2	5	17
3	5	21
7	4	?

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

5	2	8
6	5	10
6	8	?

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

6	7	7
5	7	11
7	4	?

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Puzzle 6. What comes next in the sequence?

2	27	124	365	846	1687	3032	?
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- A) 5073 B) 5049 C) 4377 D) 5025

Puzzle 7. What comes next in the sequence?

6	33	124	345	786	1561	2808	?
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- A) 4713 B) 4689 C) 4665 D) 4055

Puzzle 8. What number replaces the question mark in the grid?

2	3	8
3	8	7
7	8	?

- A) 7 B) 3 C) 8 D) 13

Puzzle 9. What comes next in the sequence?

1	18	87	268	645	1326	2443	?
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- A) 4152 B) 4176 C) 3560 D) 4128

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

5	8	1
8	5	5
8	3	?

- A) 7 B) 11 C) 10 D) 15

Answer Key

1. **B) 15**

Row sums form arithmetic sequence: 14, 20, 26.

6. **B) 5049**

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

2. **C) 21**

Row sums form arithmetic sequence: 22, 27, 32.

7. **B) 4689**

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

3. **C) 23**

Row sums form arithmetic sequence: 24, 29, 34.

8. **C) 8**

Row sums form arithmetic sequence: 13, 18, 23.

4. **C) 13**

Row sums form arithmetic sequence: 15, 21, 27.

9. **A) 4152**

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

5. **C) 15**

Row sums form arithmetic sequence: 20, 23, 26.

10. **B) 11**

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