

Pattern Puzzles – Pack 53

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

4	8	5
5	8	9
8	5	?

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

4	5	9
5	8	11
2	5	?

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

3	8	7
2	8	10
6	3	?

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

4	5	7
6	4	12
3	2	?

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

7	4	12
5	8	12
3	4	?

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

7	4	14
5	8	15
3	2	?

- A) 26
 B) 25
 C) 23
 D) 29

Puzzle 7. What comes next in the sequence?

7	32	121	340	779	1552	2797	?
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- A) 4700
 B) 4676
 C) 4652
 D) 4042

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

6	2	11
7	2	16
2	4	?

- A) 25
 B) 31
 C) 24
 D) 19

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

5	6	1
3	6	8
8	5	?

- A) 9
 B) 4
 C) 8
 D) 14

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

5	4	4
8	2	7
5	4	?

- A) 16
 B) 8
 C) 12
 D) 11

Answer Key

1. **B) 14**

Row sums form arithmetic sequence: 17, 22, 27.

6. **A) 26**

Row sums form arithmetic sequence: 25, 28, 31.

2. **A) 23**

Row sums form arithmetic sequence: 18, 24, 30.

7. **B) 4676**

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

3. **B) 13**

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

8. **A) 25**

Row sums form arithmetic sequence: 19, 25, 31.

4. **B) 23**

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

9. **A) 9**

Row sums form arithmetic sequence: 12, 17, 22.

5. **B) 20**

Row sums form arithmetic sequence: 23, 25, 27.

10. **C) 12**

Row sums form arithmetic sequence: 13, 17, 21.