

Pattern Puzzles – Pack 44

Puzzle 1. What comes next in the sequence?

3	19	87	267	643	1323	2439	?
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- A) 4171 B) 3555 C) 4147 D) 4123

Puzzle 2. What comes next in the sequence?

7	29	113	325	755	1517	2749	?
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- A) 3981 B) 4589 C) 4637 D) 4613

Puzzle 3. What comes next in the sequence?

4	33	136	385	876	1729	3088	?
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- A) 5097 B) 5145 C) 4447 D) 5121

Puzzle 4. What comes next in the sequence?

2	15	78	251	618	1287	2390	?
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- A) 4107 B) 3493 C) 4083 D) 4059

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

6	3	3
6	8	2
4	2	?

- A) 10 B) 18 C) 13 D) 14

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

2	5	7
6	8	3
6	4	?

- A) 13
 B) 7
 C) 9
 D) 10

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

3	8	9
4	3	16
8	5	?

- A) 13
 B) 10
 C) 16
 D) 12

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

5	2	13
2	7	15
3	5	?

- A) 20
 B) 24
 C) 16
 D) 19

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

7	5	13
5	8	14
8	6	?

- A) 15
 B) 13
 C) 14
 D) 17

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

4	4	11
4	4	14
7	7	?

- A) 8
 B) 14
 C) 10
 D) 11

Answer Key

1. **C) 4147**

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

6. **D) 10**

Row sums form arithmetic sequence: 14, 17, 20.

2. **D) 4613**

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

7. **A) 13**

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

3. **D) 5121**

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

8. **A) 20**

Row sums form arithmetic sequence: 20, 24, 28.

4. **C) 4083**

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

9. **A) 15**

Row sums form arithmetic sequence: 25, 27, 29.

5. **D) 14**

Row sums form arithmetic sequence: 12, 16, 20.

10. **D) 11**

Row sums form arithmetic sequence: 19, 22, 25.