

Pattern Puzzles – Pack 14

Puzzle 1. What comes next in the sequence?

11	52	173	446	967	1856	3257	5338	?
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- A) 8291 B) 8315 C) 8267 D) 5338

Puzzle 2. What comes next in the sequence?

7	37	141	391	883	1737	3097	5131	?
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- A) 8007 B) 8055 C) 8031 D) 5131

Puzzle 3. What comes next in the sequence?

14	9	12	12	21	16	16	20	28	23	20	28	?
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- A) 30 B) 33 C) 35 D) 36

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

2	10	6
12	24	7
14	2	?

- A) 32 B) 23 C) 33 D) 38

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

3	3	6
9	4	8
3	14	?

- A) 7 B) 11 C) 14 D) 15

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Puzzle 6. What comes next in the sequence?

5	10	3	4	8	15	6	6	11	20	9	8	?
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- A) 16 B) 14 C) 15 D) 25

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

3	2	11
3	4	18
6	3	?

- A) 31 B) 41 C) 16 D) 40

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

2	1	6
6	7	23
3	9	?

- A) 24 B) 38 C) 37 D) 10

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

5	5	15
4	9	23
4	5	?

- A) 41 B) 29 C) 40 D) 27

Puzzle 10. What comes next in the sequence?

7	11	6	14	10	17	10	19	13	23	14	24	?
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- A) 17 B) 29 C) 19 D) 16

Answer Key

1. **A) 8291**

4th differences are all 24 (quartic sequence).

6. **B) 14**

Four interleaved arithmetic series (period 4):

2. **C) 8031**

4th differences are all 24 (quartic sequence).

7. **D) 40**

Row sums are perfect squares: 16, 25, 49.

3. **C) 35**

Four interleaved arithmetic series (period 4):

8. **C) 37**

Row sums are perfect squares: 9, 36, 49.

4. **A) 32**

Column sums are triangular numbers: 28, 36, 45.

9. **C) 40**

Row sums are perfect squares: 25, 36, 49.

5. **C) 14**

Column sums are triangular numbers: 15, 21, 28.

10. **D) 16**

Four interleaved arithmetic series (period 4):