

Pattern Puzzles – Pack 10

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

3	5	9
6	7	8
8	4	?

- A) 17
 B) 9
 C) 13
 D) 12

Puzzle 2. What comes next in the sequence?

0	12	72	240	600	1260	2352	?
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- A) 4032
 B) 4008
 C) 4056
 D) 3444

Puzzle 3. What comes next in the sequence?

5	38	149	410	917	1790	3173	?
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- A) 5258
 B) 5210
 C) 5234
 D) 4556

Puzzle 4. What comes next in the sequence?

7	36	131	358	807	1592	2851	?
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- A) 4110
 B) 4746
 C) 4722
 D) 4770

Puzzle 5. What comes next in the sequence?

11	48	163	428	939	1816	3203	?
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- A) 4590
 B) 5244
 C) 5292
 D) 5268

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Puzzle 6. What comes next in the sequence?

6	26	106	312	734	1486	2706	?
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- A) 4556
 B) 4532
 C) 3926
 D) 4580

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

3	8	14
4	2	23
5	6	?

- A) 22
 B) 21
 C) 26
 D) 18

Puzzle 8. What comes next in the sequence?

3	26	113	330	767	1538	2781	?
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- A) 4658
 B) 4634
 C) 4024
 D) 4682

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

4	7	8
3	8	10
2	7	?

- A) 12
 B) 16
 C) 13
 D) 14

Puzzle 10. What comes next in the sequence?

7	31	119	337	775	1547	2791	?
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- A) 4693
 B) 4669
 C) 4035
 D) 4645

Answer Key

1. **C) 13**

Row sums form arithmetic sequence: 17, 21, 25.

6. **A) 4556**

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

2. **A) 4032**

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

7. **A) 22**

Row sums form arithmetic sequence: 25, 29, 33.

3. **C) 5234**

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

8. **A) 4658**

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

4. **B) 4746**

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

9. **D) 14**

Row sums form arithmetic sequence: 19, 21, 23.

5. **D) 5268**

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

10. **B) 4669**

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