

Pattern Puzzles – Pack 19

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

6	4	7
5	6	12
8	4	?

- A) 16
 B) 23
 C) 17
 D) 11

Puzzle 2. What comes next in the sequence?

7	44	159	424	935	1812	3199	?
---	----	-----	-----	-----	------	------	---

- A) 4586
 B) 5264
 C) 5288
 D) 5240

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

5	6	13
3	6	18
4	2	?

- A) 27
 B) 24
 C) 21
 D) 23

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

4	3	12
6	5	10
4	6	?

- A) 15
 B) 11
 C) 13
 D) 12

Puzzle 5. What comes next in the sequence?

3	16	79	252	619	1288	2391	?
---	----	----	-----	-----	------	------	---

- A) 4060
 B) 3494
 C) 4084
 D) 4108

Pattern Puzzles – Pack 19

Puzzle 6. What comes next in the sequence?

6	30	118	336	774	1546	2790	?
---	----	-----	-----	-----	------	------	---

- A) 4644 B) 4034 C) 4668 D) 4692

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

3	2	14
8	7	7
4	4	?

- A) 16 B) 20 C) 17 D) 14

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

7	2	16
8	5	15
8	3	?

- A) 19 B) 17 C) 23 D) 20

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

7	4	1
2	7	9
8	8	?

- A) 7 B) 14 C) 2 D) 8

Puzzle 10. What comes next in the sequence?

10	37	128	349	790	1565	2812	?
----	----	-----	-----	-----	------	------	---

- A) 4693 B) 4059 C) 4669 D) 4717

Answer Key

1. **C) 17**

Row sums form arithmetic sequence: 17, 23, 29.

6. **C) 4668**

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

2. **B) 5264**

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

7. **C) 17**

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

3. **B) 24**

Row sums form arithmetic sequence: 24, 27, 30.

8. **D) 20**

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

4. **C) 13**

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

9. **D) 8**

Row sums form arithmetic sequence: 12, 18, 24.

5. **C) 4084**

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

10. **A) 4693**

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