

Pattern Puzzles – Pack 49

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

3	5	7
6	6	9
8	8	?

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Puzzle 2. What comes next in the sequence?

4	18	80	250	612	1274	2368	?
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Puzzle 3. What number replaces the question mark in the grid?

2	6	5
7	2	7
7	7	?

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Puzzle 4. What comes next in the sequence?

5	36	143	398	897	1760	3131	?
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Puzzle 5. What comes next in the sequence?

2	22	102	308	730	1482	2702	?
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Puzzle 6. What number replaces the question mark in the grid?

5	7	11
8	7	11
5	5	?

- A) 16
 B) 22
 C) 18
 D) 19

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

2	6	9
4	8	7
8	5	?

- A) 8
 B) 6
 C) 7
 D) 10

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

8	4	9
2	5	17
2	3	?

- A) 25
 B) 19
 C) 22
 D) 21

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

7	2	16
4	4	23
2	7	?

- A) 22
 B) 27
 C) 34
 D) 28

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

3	5	5
8	2	7
4	2	?

- A) 15
 B) 14
 C) 11
 D) 19

Answer Key

1. **B) 11**

Row sums form arithmetic sequence: 15, 21, 27.

6. **D) 19**

Row sums form arithmetic sequence: 23, 26, 29.

2. **D) 4050**

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

7. **A) 8**

Row sums form arithmetic sequence: 17, 19, 21.

3. **C) 5**

Row sums form arithmetic sequence: 13, 16, 19.

8. **C) 22**

Row sums form arithmetic sequence: 21, 24, 27.

4. **D) 5178**

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

9. **D) 28**

Row sums form arithmetic sequence: 25, 31, 37.

5. **C) 4552**

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

10. **A) 15**

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