

Pattern Puzzles – Pack 52

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

6	7	8
5	2	16
5	6	?

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

Puzzle 2. What comes next in the sequence?

5	30	119	338	777	1550	2795	?
---	----	-----	-----	-----	------	------	---

- A) 4698
 B) 4674
 C) 4650
 D) 4040

Puzzle 3. What comes next in the sequence?

3	22	101	306	727	1478	2697	?
---	----	-----	-----	-----	------	------	---

- A) 4522
 B) 3916
 C) 4546
 D) 4570

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

6	6	10
7	8	13
5	3	?

- A) 25
 B) 20
 C) 26
 D) 32

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

8	7	9
8	6	14
8	8	?

- A) 15
 B) 16
 C) 20
 D) 12

Pattern Puzzles – Pack 52

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

7	7	9
3	8	14
6	8	?

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

Puzzle 7. What comes next in the sequence?

4	37	148	409	916	1789	3172	?
---	----	-----	-----	-----	------	------	---

- A) 4555
 B) 5233
 C) 5209
 D) 5257

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

5	6	9
7	6	13
7	6	?

- A) 25
 B) 13
 C) 18
 D) 19

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

5	6	11
4	2	19
4	8	?

- A) 13
 B) 15
 C) 19
 D) 16

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

7	4	4
8	3	10
6	7	?

- A) 13
 B) 8
 C) 14
 D) 20

Answer Key

1. **C) 14**

Row sums form arithmetic sequence: 21, 23, 25.

6. **A) 13**

Row sums form arithmetic sequence: 23, 25, 27.

2. **B) 4674**

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

7. **B) 5233**

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

3. **C) 4546**

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

8. **D) 19**

Row sums form arithmetic sequence: 20, 26, 32.

4. **C) 26**

Row sums form arithmetic sequence: 22, 28, 34.

9. **D) 16**

Row sums form arithmetic sequence: 22, 25, 28.

5. **B) 16**

Row sums form arithmetic sequence: 24, 28, 32.

10. **C) 14**

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