

Pattern Puzzles – Pack 28

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

4	5	12
3	7	13
8	3	?

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

Puzzle 2. What comes next in the sequence?

4	29	118	337	776	1549	2794	?
---	----	-----	-----	-----	------	------	---

- A) 4649
 B) 4039
 C) 4697
 D) 4673

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

2	3	8
8	5	3
7	8	?

- A) 1
 B) 7
 C) 4
 D) 3

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

6	6	3
2	6	9
4	3	?

- A) 10
 B) 14
 C) 11
 D) 12

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

7	8	1
7	7	4
4	2	?

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

Pattern Puzzles – Pack 28

Puzzle 6. What comes next in the sequence?

6	25	98	285	670	1361	2490	?
---	----	----	-----	-----	------	------	---

- A) 4213 B) 3619 C) 4189 D) 4237

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

3	5	8
5	2	15
6	4	?

- A) 24 B) 18 C) 17 D) 12

Puzzle 8. What comes next in the sequence?

4	22	100	304	724	1474	2692	?
---	----	-----	-----	-----	------	------	---

- A) 4540 B) 4564 C) 3910 D) 4516

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

7	7	9
8	8	13
6	4	?

- A) 19 B) 31 C) 25 D) 24

Puzzle 10. What comes next in the sequence?

10	41	146	397	890	1745	3106	?
----	----	-----	-----	-----	------	------	---

- A) 5141 B) 5117 C) 5165 D) 4467

Answer Key

1. **B) 14**

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

6. **A) 4213**

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

2. **D) 4673**

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

7. **B) 18**

Row sums form arithmetic sequence: 16, 22, 28.

3. **C) 4**

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

8. **A) 4540**

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

4. **D) 12**

Row sums form arithmetic sequence: 15, 17, 19.

9. **C) 25**

Row sums form arithmetic sequence: 23, 29, 35.

5. **B) 14**

Row sums form arithmetic sequence: 16, 18, 20.

10. **A) 5141**

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