

Pattern Puzzles – Pack 35

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

4	2	9
6	4	8
2	4	?

- A) 15
 B) 14
 C) 18
 D) 12

Puzzle 2. What comes next in the sequence?

4	17	80	253	620	1289	2392	?
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- A) 4109
 B) 4085
 C) 3495
 D) 4061

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

5	6	12
7	2	19
7	8	?

- A) 18
 B) 17
 C) 13
 D) 23

Puzzle 4. What comes next in the sequence?

7	33	131	373	855	1697	3043	?
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- A) 5037
 B) 4389
 C) 5085
 D) 5061

Puzzle 5. What comes next in the sequence?

3	22	93	276	655	1338	2457	?
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- A) 3576
 B) 4144
 C) 4168
 D) 4192

Pattern Puzzles – Pack 35

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

2	7	11
2	3	19
4	8	?

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

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

3	6	3
7	5	6
3	3	?

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

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

3	3	13
7	4	10
8	8	?

- A) 9
 B) 7
 C) 6
 D) 5

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

2	7	10
2	4	16
4	5	?

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

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

3	4	5
7	2	5
2	7	?

- A) 5
 B) 9
 C) 6
 D) 7

Answer Key

1. **A) 15**

Row sums form arithmetic sequence: 15, 18, 21.

6. **A) 16**

Row sums form arithmetic sequence: 20, 24, 28.

2. **B) 4085**

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

7. **B) 18**

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

3. **A) 18**

Row sums form arithmetic sequence: 23, 28, 33.

8. **B) 7**

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

4. **D) 5061**

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

9. **C) 16**

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

5. **C) 4168**

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

10. **D) 7**

Row sums form arithmetic sequence: 12, 14, 16.