

Pattern Puzzles – Pack 13

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

5	6	10
8	3	12
2	6	?

- A) 17
 B) 16
 C) 19
 D) 15

Puzzle 2. What number replaces the question mark in the grid?

7	8	9
4	4	19
2	2	?

- A) 29
 B) 25
 C) 23
 D) 26

Puzzle 3. What comes next in the sequence?

0	13	76	249	616	1285	2388	?
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- A) 3491
 B) 4105
 C) 4057
 D) 4081

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

3	4	17
5	2	19
8	4	?

- A) 15
 B) 18
 C) 16
 D) 14

Puzzle 5. What comes next in the sequence?

6	34	128	354	802	1586	2844	?
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- A) 4714
 B) 4762
 C) 4738
 D) 4102

Pattern Puzzles – Pack 13

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

3	5	8
5	6	11
8	6	?

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

7	2	10
2	7	16
2	2	?

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

7	3	9
2	8	15
4	5	?

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Puzzle 9. What comes next in the sequence?

7	27	101	289	675	1367	2497	?
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Puzzle 10. What number replaces the question mark in the grid?

5	3	9
7	8	7
4	3	?

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Answer Key

1. **A) 17**

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

6. **A) 14**

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

2. **D) 26**

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

7. **D) 27**

Row sums form arithmetic sequence: 19, 25, 31.

3. **D) 4081**

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

8. **B) 22**

Row sums form arithmetic sequence: 19, 25, 31.

4. **C) 16**

Row sums form arithmetic sequence: 24, 26, 28.

9. **B) 4221**

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

5. **C) 4738**

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

10. **A) 20**

Row sums form arithmetic sequence: 17, 22, 27.