

Pattern Puzzles – Pack 46

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

4	3	18
8	2	26
2	11	?

- A) 37
 B) 23
 C) 36
 D) 25

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

6	6	13
4	9	23
9	11	?

- A) 16
 B) 18
 C) 29
 D) 30

Puzzle 3. What comes next in the sequence?

3	28	117	336	775	1548	2793	4672	?
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- A) 7371
 B) 4672
 C) 7395
 D) 7347

Puzzle 4. What comes next in the sequence?

5	9	2	10	13	15	10	16	21	21	18	22	?
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- A) 27
 B) 32
 C) 29
 D) 30

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

3	5	2
7	4	18
11	19	?

- A) 17
 B) 12
 C) 16
 D) 8

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

5	1	19
6	2	28
9	9	?

- A) 46
 B) 47
 C) 35
 D) 18

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

1	12	1
11	23	33
16	1	?

- A) 12
 B) 11
 C) 2
 D) 9

Puzzle 8. What comes next in the sequence?

8	8	2	6	11	14	4	9	14	20	6	12	?
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- A) 17
 B) 20
 C) 18
 D) 26

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

1	1	7
3	3	19
6	2	?

- A) 12
 B) 17
 C) 29
 D) 28

Puzzle 10. What comes next in the sequence?

8	10	7	13	15	15	12	21	22	20	17	29	?
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- A) 27
 B) 30
 C) 25
 D) 29

Answer Key

1. **C) 36**

Row sums are perfect squares: 25, 36, 49.

6. **A) 46**

Row sums are perfect squares: 25, 36, 64.

2. **C) 29**

Row sums are perfect squares: 25, 36, 49.

7. **B) 11**

Column sums are triangular numbers: 28, 36, 45.

3. **A) 7371**

4th differences are all 24 (quartic sequence).

8. **A) 17**

Four interleaved arithmetic series (period 4):

4. **C) 29**

Four interleaved arithmetic series (period 4):

9. **D) 28**

Row sums are perfect squares: 9, 25, 36.

5. **C) 16**

Column sums are triangular numbers: 21, 28, 36.

10. **D) 29**

Four interleaved arithmetic series (period 4):