

Pattern Puzzles – Pack 58

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

2	4	10
4	2	19
6	8	?

- A) 11
 B) 36
 C) 26
 D) 35

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

1	1	7
6	4	26
14	10	?

- A) 13
 B) 40
 C) 41
 D) 12

Puzzle 3. What comes next in the sequence?

9	8	15	3	12	16	21	6	15	24	27	9	?
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- A) 19
 B) 32
 C) 18
 D) 23

Puzzle 4. What comes next in the sequence?

3	2	3	11	19	36	69	127	?
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- A) 235
 B) 232
 C) 238
 D) 220

Puzzle 5. What comes next in the sequence?

15	10	4	5	19	15	11	10	23	20	18	15	?
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- A) 28
 B) 30
 C) 27
 D) 25

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

3	1	6
8	2	10
4	18	?

- A) 15
 B) 13
 C) 12
 D) 5

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

1	3	7
9	11	19
5	7	?

- A) 3
 B) 1
 C) 2
 D) 0

Puzzle 8. What comes next in the sequence?

11	5	12	6	14	7	19	14	17	9	26	22	?
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- A) 20
 B) 21
 C) 11
 D) 19

Puzzle 9. What comes next in the sequence?

3	2	2	8	13	24	46	84	?
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- A) 156
 B) 154
 C) 155
 D) 124

Puzzle 10. What comes next in the sequence?

4	2	6	14	24	46	86	158	?
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- A) 290
 B) 294
 C) 349
 D) 292

Answer Key

1. **D) 35**

Row sums are perfect squares: 16, 25, 49.

6. **C) 12**

Column sums are triangular numbers: 15, 21, 28.

2. **B) 40**

Row sums are perfect squares: 9, 36, 64.

7. **C) 2**

Column sums are triangular numbers: 15, 21, 28.

3. **C) 18**

Four interleaved arithmetic series (period 4):

8. **A) 20**

Four interleaved arithmetic series (period 4):

4. **A) 235**

Rule: $a(n) = a(n-1) + a(n-2) + a(n-3) + 3$.

9. **C) 155**

Rule: $a(n) = a(n-1) + a(n-2) + a(n-3) + 1$.

5. **C) 27**

Four interleaved arithmetic series (period 4):

10. **D) 292**

Rule: $a(n) = a(n-1) + a(n-2) + a(n-3) + 2$.