

Pattern Puzzles – Pack 23

Puzzle 1. What comes next in the sequence?

2	4	7	9	10	6	12	13	18	8	17	17	?
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- A) 10 B) 27 C) 26 D) 20

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

1	3	21
9	4	23
8	2	?

- A) 40 B) 39 C) 28 D) 26

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

4	1	11
8	1	27
15	8	?

- A) 13 B) 42 C) 41 D) 21

Puzzle 4. What comes next in the sequence?

3	5	5	14	25	45	85	156	?
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- A) 286 B) 263 C) 287 D) 288

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

1	4	5
8	10	8
1	1	?

- A) 9 B) 8 C) 2 D) 13

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Puzzle 6. What comes next in the sequence?

14	3	6	2	20	11	12	8	26	19	18	14	?
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A) 32	B) 33	C) 34	D) 27
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Puzzle 7. What comes next in the sequence?

3	3	5	13	23	43	81	149	?
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A) 273	B) 275	C) 236	D) 277
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Puzzle 8. What number replaces the question mark in the grid?

6	10	3
9	22	29
13	4	?

A) 13	B) 14	C) 8	D) 4
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Puzzle 9. What number replaces the question mark in the grid?

1	5	4
5	9	11
4	1	?

A) 5	B) 0	C) 7	D) 6
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Puzzle 10. What number replaces the question mark in the grid?

2	3	11
2	3	20
5	3	?

A) 57	B) 17	C) 56	D) 47
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Answer Key

1. **C) 26**

Four interleaved arithmetic series (period 4):

6. **A) 32**

Four interleaved arithmetic series (period 4):

2. **B) 39**

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

7. **B) 275**

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

3. **C) 41**

Row sums are perfect squares: 16, 36, 64.

8. **A) 13**

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

4. **C) 287**

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

9. **D) 6**

Column sums are triangular numbers: 10, 15, 21.

5. **B) 8**

Column sums are triangular numbers: 10, 15, 21.

10. **C) 56**

Row sums are perfect squares: 16, 25, 64.