

Pattern Puzzles – Pack 14

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

6	1	14
11	2	21
1	18	?

- A) 36
 B) 49
 C) 35
 D) 15

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

1	1	3
1	1	6
3	1	?

- A) 8
 B) 4
 C) 12
 D) 9

Puzzle 3. What comes next in the sequence?

1	8	23	61	160	419	1097	?
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- A) 3291
 B) 7518
 C) 1775
 D) 7519

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

3	2	8
2	7	12
5	8	?

- A) 8
 B) 29
 C) 21
 D) 20

Puzzle 5. What comes next in the sequence?

3	4	5	8	8	16	13	32	21	?
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- A) 64
 B) 65
 C) 56
 D) 34

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

1	1	3
1	2	5
3	2	?

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Puzzle 7. What comes next in the sequence?

4	2	2	4	6	8	8	16	14	?
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Puzzle 8. What number replaces the question mark in the grid?

1	1	3
2	1	5
1	4	?

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

2	1	5
2	3	8
4	4	?

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Puzzle 10. What comes next in the sequence?

2	2	3	6	5	18	8	54	13	?
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Answer Key

1. A) 36

Row sums are Fibonacci numbers: $F(8)=21$, $F(9)=34$, $F(10)=55$.

6. C) 8

Row sums are Fibonacci numbers: $F(5)=5$, $F(6)=8$, $F(7)=13$.

2. D) 9

Row sums are Fibonacci numbers: $F(5)=5$, $F(6)=8$, $F(7)=13$.

7. C) 32

Odd positions: Fibonacci-like sequence starting 4, 2.

3. D) 7519

Rule: $a(n) = 3 \times a(n-1) - a(n-2)$ (Lucas-type sequence).

8. A) 8

Row sums are Fibonacci numbers: $F(5)=5$, $F(6)=8$, $F(7)=13$.

4. C) 21

Row sums are Fibonacci numbers: $F(7)=13$, $F(8)=21$, $F(9)=34$.

9. D) 13

Row sums are Fibonacci numbers: $F(6)=8$, $F(7)=13$, $F(8)=21$.

5. A) 64

Odd positions: Fibonacci-like sequence starting 3, 5.

10. D) 162

Odd positions: Fibonacci-like sequence starting 2, 3.