

Pattern Puzzles – Pack 45

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

3	2	8
1	3	17
4	6	?

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Puzzle 2. What comes next in the sequence?

5	3	2	6	7	12	9	24	16	?
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Puzzle 3. What number replaces the question mark in the grid?

1	1	3
2	2	4
2	1	?

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

3	1	17
5	6	23
11	14	?

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

2	1	5
2	2	9
6	5	?

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Puzzle 6. What comes next in the sequence?

3	3	5	9	8	27	13	81	21	?
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- A) 271 B) 243 C) 34 D) 244

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

3	3	7
2	4	15
9	6	?

- A) 6 B) 18 C) 19 D) 27

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

1	2	5
3	2	8
6	5	?

- A) 10 B) 15 C) 9 D) 2

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

2	3	8
7	3	11
10	3	?

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

Puzzle 10. What number replaces the question mark in the grid?

1	1	11
5	4	12
11	1	?

- A) 9 B) 30 C) 21 D) 22

Answer Key

1. **C) 24**

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

6. **B) 243**

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

2. **D) 48**

Odd positions: Fibonacci-like sequence starting 5, 2.

7. **C) 19**

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

3. **A) 10**

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

8. **A) 10**

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

4. **D) 30**

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

9. **A) 21**

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

5. **A) 10**

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

10. **D) 22**

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