

Pattern Puzzles – Pack 10

Puzzle 1. What comes next in the sequence?

5	4	4	8	9	16	13	32	22	?
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- A) 65 B) 64 C) 35 D) 52

Puzzle 2. What comes next in the sequence?

5	4	5	12	10	36	15	108	25	?
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- A) 325 B) 324 C) 40 D) 295

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

1	1	3
2	1	5
4	3	?

- A) 1 B) 5 C) 9 D) 6

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

1	1	3
1	1	6
2	4	?

- A) 10 B) 7 C) 6 D) 2

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

1	1	3
2	2	4
2	2	?

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

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

2	2	4
4	2	7
1	5	?

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Puzzle 7. What comes next in the sequence?

4	3	3	9	7	27	10	81	17	?
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Puzzle 8. What number replaces the question mark in the grid?

2	2	4
4	4	5
2	2	?

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

1	1	6
2	1	10
2	6	?

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

1	1	3
1	2	5
2	3	?

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Answer Key

1. **B) 64**

Odd positions: Fibonacci-like sequence starting 5, 4.

6. **B) 15**

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

2. **B) 324**

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

7. **D) 243**

Odd positions: Fibonacci-like sequence starting 4, 3.

3. **D) 6**

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

8. **A) 17**

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

4. **B) 7**

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

9. **A) 13**

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

5. **A) 9**

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

10. **B) 8**

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