

## Pattern Puzzles – Pack 16

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

1	1	3
2	2	4
1	2	?

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

7	6	8
2	3	29
18	11	?

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

2	1	5
1	4	8
1	4	?

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

6	5	10
4	11	19
7	11	?

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**Puzzle 5.** What comes next in the sequence?

2	2	3	4	5	8	8	16	13	?
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**Puzzle 6.** What comes next in the sequence?

4	4	4	12	8	36	12	108	20	?
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- A) 277      B) 325      C) 32      D) 324

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

2	6	13
6	9	19
18	10	?

- A) 40      B) 27      C) 6      D) 26

**Puzzle 8.** What comes next in the sequence?

3	4	2	8	5	16	7	32	12	?
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- A) 65      B) 19      C) 64      D) 57

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

1	1	3
2	2	4
1	4	?

- A) 8      B) 7      C) 3      D) 11

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

4	4	5
5	5	11
4	3	?

- A) 35      B) 14      C) 27      D) 26

## Answer Key

**1. C) 10**

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

**6. D) 324**

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

**2. D) 26**

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

**7. B) 27**

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

**3. D) 16**

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

**8. C) 64**

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

**4. A) 37**

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

**9. A) 8**

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

**5. A) 32**

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

**10. C) 27**

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