

### Pattern Puzzles – Pack 29

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

3	4	6
6	6	9
3	2	?

- A) 16     
  B) 29     
  C) 37     
  D) 28

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

7	3	11
5	11	18
16	18	?

- A) 0     
  B) 20     
  C) 34     
  D) 21

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

2	2	4
2	3	8
2	6	?

- A) 13     
  B) 18     
  C) 5     
  D) 12

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

1	3	17
2	7	25
13	1	?

- A) 40     
  B) 54     
  C) 20     
  D) 41

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

3	2	2	6	5	18	7	54	12	?
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- A) 162     
  B) 19     
  C) 163     
  D) 136

### Pattern Puzzles – Pack 29

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

4	1	16
8	10	16
8	6	?

- A) 20     
  B) 41     
  C) 54     
  D) 40

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

1	1	6
2	1	10
1	1	?

- A) 18     
  B) 19     
  C) 24     
  D) 11

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

4	3	4	6	8	12	12	24	20	?
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- A) 48     
  B) 52     
  C) 32     
  D) 49

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

2	1	5
2	2	9
7	3	?

- A) 16     
  B) 10     
  C) 11     
  D) 3

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

6	6	9
3	6	25
9	13	?

- A) 33     
  B) 12     
  C) 32     
  D) 46

## Answer Key

1. **B) 29**

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

6. **B) 41**

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

2. **D) 21**

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

7. **B) 19**

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

3. **A) 13**

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

8. **A) 48**

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

4. **D) 41**

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

9. **C) 11**

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

5. **A) 162**

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

10. **A) 33**

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