

### Pattern Puzzles – Pack 30

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

7	3	11
2	7	25
1	10	?

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

4	2	7
4	7	10
7	7	?

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

4	3	6
4	5	12
9	5	?

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

2	1	5
3	4	6
4	7	?

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

1	1	3
2	1	5
1	3	?

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**Puzzle 6.** What comes next in the sequence?

4	3	2	9	6	27	8	81	14	?
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- A) 282    
  B) 22    
  C) 243    
  D) 244

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

2	2	4
1	4	8
5	7	?

- A) 9    
  B) 8    
  C) 14    
  D) 1

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

1	3	9
1	3	17
4	11	?

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

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

1	1	3
2	1	5
3	2	?

- A) 7    
  B) 11    
  C) 8    
  D) 3

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

2	1	5
3	1	9
3	6	?

- A) 12    
  B) 17    
  C) 4    
  D) 11

## Answer Key

**1. C) 44**

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

**6. C) 243**

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

**2. B) 20**

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

**7. A) 9**

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

**3. B) 20**

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

**8. A) 19**

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

**4. B) 10**

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

**9. C) 8**

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

**5. B) 9**

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

**10. A) 12**

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