

## Pattern Puzzles – Pack 52

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

2	2	9
4	5	12
4	8	?

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

7	2	12
11	2	21
2	9	?

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

3	5	13
1	3	30
13	6	?

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

4	3	6
3	3	15
8	3	?

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

5	1	15
6	5	23
9	2	?

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## Pattern Puzzles – Pack 52

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

1	1	3
2	2	4
4	2	?

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

1	1	6
1	1	11
6	1	?

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

1	1	11
7	4	10
9	9	?

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

7	4	10
11	11	12
2	6	?

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

1	1	11
2	7	12
1	8	?

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## Answer Key

1. **B) 22**

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

6. **C) 7**

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

2. **C) 44**

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

7. **A) 14**

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

3. **A) 36**

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

8. **A) 16**

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

4. **C) 23**

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

9. **C) 47**

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

5. **A) 44**

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

10. **B) 25**

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