

## Pattern Puzzles – Pack 46

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

3	2	16
4	10	20
8	17	?

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

4	6	11
8	3	23
6	2	?

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

1	2	10
5	5	11
10	4	?

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

5	7	9
4	9	21
10	5	?

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

2	2	4
2	3	8
7	6	?

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## Pattern Puzzles – Pack 46

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

1	2	5
3	2	8
1	7	?

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

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

1	2	10
1	6	14
10	6	?

- A) 26     
  B) 17     
  C) 18     
  D) 5

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

2	2	17
5	10	19
6	9	?

- A) 53     
  B) 19     
  C) 39     
  D) 40

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

6	2	13
2	5	27
18	3	?

- A) 13     
  B) 47     
  C) 33     
  D) 34

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

2	2	9
6	1	14
2	5	?

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

## Answer Key

**1. D) 30**

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

**6. D) 13**

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

**2. A) 47**

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

**7. C) 18**

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

**3. B) 20**

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

**8. D) 40**

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

**4. A) 40**

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

**9. D) 34**

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

**5. C) 8**

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

**10. A) 27**

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