

### Pattern Puzzles – Pack 54

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

4	4	14
4	4	18
4	6	?

- A) 16     
  B) 24     
  C) 19     
  D) 20

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

8	2	8
8	3	10
4	5	?

- A) 18     
  B) 15     
  C) 14     
  D) 12

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

7	2	8
7	8	6
3	3	?

- A) 18     
  B) 15     
  C) 23     
  D) 19

**Puzzle 4.** What comes next in the sequence?

6	37	144	399	898	1761	3132	?
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- A) 5179     
  B) 5155     
  C) 4503     
  D) 5203

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

4	8	10
5	8	14
6	8	?

- A) 13     
  B) 23     
  C) 17     
  D) 18

### Pattern Puzzles – Pack 54

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

3	3	8
6	4	9
6	7	?

- A) 11     
  B) 16     
  C) 6     
  D) 10

**Puzzle 7.** What comes next in the sequence?

8	29	104	293	680	1373	2504	?
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- A) 4205     
  B) 4229     
  C) 3635     
  D) 4253

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

8	5	9
6	3	19
4	7	?

- A) 29     
  B) 17     
  C) 23     
  D) 22

**Puzzle 9.** What comes next in the sequence?

2	25	112	329	766	1537	2780	?
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- A) 4023     
  B) 4657     
  C) 4681     
  D) 4633

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

5	3	8
3	6	9
2	6	?

- A) 11     
  B) 10     
  C) 12     
  D) 14

## Answer Key

1. **D) 20**

Row sums form arithmetic sequence: 22, 26, 30.

6. **A) 11**

Row sums form arithmetic sequence: 14, 19, 24.

2. **B) 15**

Row sums form arithmetic sequence: 18, 21, 24.

7. **B) 4229**

4th diffs: 24 (constant – quartic sequence).

3. **D) 19**

Row sums form arithmetic sequence: 17, 21, 25.

8. **C) 23**

Row sums form arithmetic sequence: 22, 28, 34.

4. **A) 5179**

4th diffs: 24 (constant – quartic sequence).

9. **B) 4657**

4th diffs: 24 (constant – quartic sequence).

5. **D) 18**

Row sums form arithmetic sequence: 22, 27, 32.

10. **C) 12**

Row sums form arithmetic sequence: 16, 18, 20.