

## Pattern Puzzles – Pack 29

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

4	5	10
2	5	18
2	4	?

- A) 31     
  B) 19     
  C) 24     
  D) 25

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

5	7	10
2	8	14
8	5	?

- A) 11     
  B) 15     
  C) 13     
  D) 12

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

6	2	8
6	4	11
4	5	?

- A) 22     
  B) 17     
  C) 16     
  D) 12

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

4	25	106	313	736	1489	2710	?
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- A) 4561     
  B) 3931     
  C) 4537     
  D) 4585

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

8	3	7
6	6	9
2	3	?

- A) 22     
  B) 18     
  C) 19     
  D) 16

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

8	42	152	410	912	1778	3152	?
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- A) 5226    
  B) 5178    
  C) 5202    
  D) 4526

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

7	31	117	331	763	1527	2761	?
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- A) 4603    
  B) 3995    
  C) 4651    
  D) 4627

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

4	2	10
5	8	8
6	3	?

- A) 16    
  B) 17    
  C) 22    
  D) 12

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

3	4	8
4	3	11
7	8	?

- A) 3    
  B) 5    
  C) 9    
  D) 6

**Puzzle 10.** What comes next in the sequence?

3	28	117	336	775	1548	2793	?
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- A) 4696    
  B) 4038    
  C) 4648    
  D) 4672

## Answer Key

1. **D) 25**

Row sums form arithmetic sequence: 19, 25, 31.

6. **C) 5202**

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

2. **C) 13**

Row sums form arithmetic sequence: 22, 24, 26.

7. **D) 4627**

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

3. **B) 17**

Row sums form arithmetic sequence: 16, 21, 26.

8. **B) 17**

Row sums form arithmetic sequence: 16, 21, 26.

4. **A) 4561**

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

9. **D) 6**

Row sums form arithmetic sequence: 15, 18, 21.

5. **C) 19**

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

10. **D) 4672**

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