

Pattern Puzzles – Pack 33

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

6	4	15
8	6	14
5	2	?

- A) 23
 B) 27
 C) 24
 D) 21

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

2	8	13
3	8	18
3	2	?

- A) 24
 B) 36
 C) 29
 D) 30

Puzzle 3. What comes next in the sequence?

8	37	140	389	880	1733	3092	?
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- A) 5149
 B) 5125
 C) 5101
 D) 4451

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

6	4	8
4	3	13
6	4	?

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

Puzzle 5. What comes next in the sequence?

6	29	106	297	686	1381	2514	?
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- A) 4241
 B) 4265
 C) 4217
 D) 3647

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Puzzle 6. What comes next in the sequence?

1	20	93	280	665	1356	2485	?
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- A) 4208 B) 4184 C) 4232 D) 3614

Puzzle 7. What comes next in the sequence?

1	21	103	313	741	1501	2731	?
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- A) 4569 B) 4617 C) 4593 D) 3961

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

7	4	3
6	6	7
4	3	?

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

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

7	8	8
4	4	18
7	6	?

- A) 15 B) 19 C) 16 D) 13

Puzzle 10. What comes next in the sequence?

3	15	75	243	603	1263	2355	?
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- A) 4011 B) 3447 C) 4035 D) 4059

Answer Key

1. **C) 24**

Row sums form arithmetic sequence: 25, 28, 31.

6. **A) 4208**

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

2. **D) 30**

Row sums form arithmetic sequence: 23, 29, 35.

7. **C) 4593**

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

3. **B) 5125**

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

8. **D) 17**

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

4. **C) 12**

Row sums form arithmetic sequence: 18, 20, 22.

9. **C) 16**

Row sums form arithmetic sequence: 23, 26, 29.

5. **A) 4241**

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

10. **C) 4035**

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