

Pattern Puzzles – Pack 26

Puzzle 1. What comes next in the sequence?

3	36	147	408	915	1788	3171	?
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- A) 5208 B) 5232 C) 5256 D) 4554

Puzzle 2. What comes next in the sequence?

5	33	127	353	801	1585	2843	?
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- A) 4713 B) 4761 C) 4101 D) 4737

Puzzle 3. What comes next in the sequence?

-1	10	69	236	595	1254	2345	?
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- A) 4024 B) 4048 C) 4000 D) 3436

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

7	5	2
5	2	10
6	4	?

- A) 9 B) 13 C) 7 D) 10

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

7	7	10
5	7	14
7	8	?

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

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Puzzle 6. What comes next in the sequence?

3	24	105	312	735	1488	2709	?
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- A) 4584
 B) 4536
 C) 4560
 D) 3930

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

4	2	9
7	8	6
4	4	?

- A) 18
 B) 19
 C) 25
 D) 13

Puzzle 8. What comes next in the sequence?

5	28	115	332	769	1540	2783	?
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- A) 4636
 B) 4026
 C) 4660
 D) 4684

Puzzle 9. What comes next in the sequence?

3	22	95	282	667	1358	2487	?
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- A) 3616
 B) 4210
 C) 4234
 D) 4186

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

3	6	9
7	2	13
6	2	?

- A) 22
 B) 18
 C) 14
 D) 17

Answer Key

1. **B) 5232**

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

6. **C) 4560**

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

2. **D) 4737**

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

7. **B) 19**

Row sums form arithmetic sequence: 15, 21, 27.

3. **A) 4024**

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

8. **C) 4660**

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

4. **D) 10**

Row sums form arithmetic sequence: 14, 17, 20.

9. **B) 4210**

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

5. **B) 13**

Row sums form arithmetic sequence: 24, 26, 28.

10. **B) 18**

Row sums form arithmetic sequence: 18, 22, 26.