

Pattern Puzzles – Pack 23

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

3	8	4
7	3	8
5	7	?

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

4	2	19
2	7	22
2	2	?

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

4	3	17
7	6	14
7	7	?

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

6	6	8
6	6	10
3	7	?

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

7	5	6
2	6	15
7	2	?

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Puzzle 6. What comes next in the sequence?

-2	8	66	232	590	1248	2338	?
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A) 3428	B) 3992	C) 4040	D) 4016
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Puzzle 7. What comes next in the sequence?

1	20	99	304	725	1476	2695	?
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A) 4544	B) 3914	C) 4520	D) 4568
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Puzzle 8. What number replaces the question mark in the grid?

2	2	11
5	7	8
7	8	?

A) 9	B) 10	C) 5	D) 15
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Puzzle 9. What comes next in the sequence?

6	34	136	384	874	1726	3084	?
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A) 5092	B) 4442	C) 5116	D) 5140
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Puzzle 10. What comes next in the sequence?

5	32	133	380	869	1720	3077	?
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A) 4434	B) 5108	C) 5132	D) 5084
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Answer Key

1. **B) 9**

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

6. **D) 4016**

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

2. **C) 33**

Row sums form arithmetic sequence: 25, 31, 37.

7. **A) 4544**

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

3. **C) 16**

Row sums form arithmetic sequence: 24, 27, 30.

8. **B) 10**

Row sums form arithmetic sequence: 15, 20, 25.

4. **B) 14**

Row sums form arithmetic sequence: 20, 22, 24.

9. **C) 5116**

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

5. **B) 19**

Row sums form arithmetic sequence: 18, 23, 28.

10. **B) 5108**

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