

Pattern Puzzles – Pack 24

Puzzle 1. What comes next in the sequence?

4	38	150	412	920	1794	3178	?
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A) 5240	B) 5216	C) 5264	D) 4562
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Puzzle 2. What comes next in the sequence?

6	27	110	321	750	1511	2742	?
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A) 4581	B) 4629	C) 4605	D) 3973
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Puzzle 3. What number replaces the question mark in the grid?

3	3	15
7	4	13
5	6	?

A) 15	B) 13	C) 19	D) 16
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Puzzle 4. What comes next in the sequence?

11	41	137	365	815	1601	2861	?
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A) 4757	B) 4121	C) 4733	D) 4781
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Puzzle 5. What comes next in the sequence?

7	37	133	361	811	1597	2857	?
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A) 4777	B) 4729	C) 4117	D) 4753
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Puzzle 6. What number replaces the question mark in the grid?

6	2	4
5	4	8
8	7	?

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Puzzle 7. What comes next in the sequence?

4	26	110	322	752	1514	2746	?
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Puzzle 8. What number replaces the question mark in the grid?

6	7	1
4	8	4
3	4	?

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

5	4	14
5	6	17
3	7	?

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

7	7	11
6	6	16
2	6	?

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Answer Key

1. **A) 5240**

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

6. **D) 7**

Row sums form arithmetic sequence: 12, 17, 22.

2. **C) 4605**

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

7. **A) 4610**

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

3. **D) 16**

Row sums form arithmetic sequence: 21, 24, 27.

8. **C) 11**

Row sums form arithmetic sequence: 14, 16, 18.

4. **A) 4757**

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

9. **D) 23**

Row sums form arithmetic sequence: 23, 28, 33.

5. **D) 4753**

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

10. **C) 23**

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