

Pattern Puzzles – Pack 25

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

3	5	11
5	2	18
7	3	?

- A) 21
 B) 20
 C) 27
 D) 15

Puzzle 2. What comes next in the sequence?

5	38	147	404	905	1770	3143	?
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- A) 4516
 B) 5192
 C) 5168
 D) 5216

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

8	3	6
3	6	14
5	2	?

- A) 21
 B) 28
 C) 16
 D) 22

Puzzle 4. What comes next in the sequence?

6	37	142	393	886	1741	3102	?
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- A) 5113
 B) 4463
 C) 5137
 D) 5161

Puzzle 5. What comes next in the sequence?

6	39	148	405	906	1771	3144	?
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- A) 5193
 B) 5217
 C) 5169
 D) 4517

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Puzzle 6. What comes next in the sequence?

3	27	123	363	843	1683	3027	?
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- A) 5043
 B) 4371
 C) 5019
 D) 5067

Puzzle 7. What comes next in the sequence?

5	35	141	395	893	1755	3125	?
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- A) 5195
 B) 5147
 C) 4495
 D) 5171

Puzzle 8. What comes next in the sequence?

1	17	85	265	641	1321	2437	?
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- A) 4145
 B) 4169
 C) 3553
 D) 4121

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

3	5	16
2	7	20
6	4	?

- A) 19
 B) 23
 C) 29
 D) 24

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

4	4	10
2	6	12
4	2	?

- A) 15
 B) 16
 C) 18
 D) 14

Answer Key

1. **A) 21**

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

6. **A) 5043**

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

2. **B) 5192**

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

7. **D) 5171**

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

3. **D) 22**

Row sums form arithmetic sequence: 17, 23, 29.

8. **A) 4145**

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

4. **C) 5137**

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

9. **D) 24**

Row sums form arithmetic sequence: 24, 29, 34.

5. **A) 5193**

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

10. **B) 16**

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