

Pattern Puzzles – Pack 30

Puzzle 1. What comes next in the sequence?

5	22	89	266	637	1310	2417	?
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- A) 3524
 B) 4114
 C) 4090
 D) 4138

Puzzle 2. What comes next in the sequence?

6	35	130	357	806	1591	2850	?
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- A) 4721
 B) 4769
 C) 4745
 D) 4109

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

4	4	13
6	8	13
4	2	?

- A) 33
 B) 26
 C) 21
 D) 27

Puzzle 4. What comes next in the sequence?

5	25	107	317	745	1505	2735	?
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- A) 4621
 B) 3965
 C) 4597
 D) 4573

Puzzle 5. What comes next in the sequence?

8	41	150	407	908	1773	3146	?
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- A) 5171
 B) 4519
 C) 5195
 D) 5219

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Puzzle 6. What number replaces the question mark in the grid?

5	4	13
7	3	18
4	3	?

- A) 27
 B) 26
 C) 21
 D) 33

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

8	6	11
3	4	22
6	2	?

- A) 21
 B) 29
 C) 24
 D) 25

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

6	7	9
7	6	15
5	7	?

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

Puzzle 9. What comes next in the sequence?

3	31	133	381	871	1723	3081	?
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- A) 5089
 B) 5113
 C) 4439
 D) 5137

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

4	5	15
2	2	23
5	5	?

- A) 20
 B) 17
 C) 19
 D) 23

Answer Key

1. **B) 4114**

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

6. **A) 27**

Row sums form arithmetic sequence: 22, 28, 34.

2. **C) 4745**

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

7. **D) 25**

Row sums form arithmetic sequence: 25, 29, 33.

3. **D) 27**

Row sums form arithmetic sequence: 21, 27, 33.

8. **B) 22**

Row sums form arithmetic sequence: 22, 28, 34.

4. **C) 4597**

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

9. **B) 5113**

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

5. **C) 5195**

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

10. **A) 20**

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