

Pattern Puzzles – Pack 34

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

3	6	14
6	8	14
6	7	?

- A) 25
 B) 15
 C) 20
 D) 19

Puzzle 2. What comes next in the sequence?

1	26	123	364	845	1686	3031	?
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- A) 5048
 B) 5072
 C) 5024
 D) 4376

Puzzle 3. What comes next in the sequence?

7	23	89	265	635	1307	2413	?
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- A) 4109
 B) 4133
 C) 3519
 D) 4085

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

5	7	7
2	5	16
6	2	?

- A) 18
 B) 15
 C) 19
 D) 23

Puzzle 5. What comes next in the sequence?

1	22	105	316	745	1506	2737	?
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- A) 4600
 B) 3968
 C) 4624
 D) 4576

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Puzzle 6. What comes next in the sequence?

4	32	132	376	860	1704	3052	?
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- A) 5096
 B) 5072
 C) 4400
 D) 5048

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

4	3	17
6	8	16
3	8	?

- A) 19
 B) 31
 C) 24
 D) 25

Puzzle 8. What comes next in the sequence?

4	23	94	277	656	1339	2458	?
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- A) 3577
 B) 4145
 C) 4169
 D) 4193

Puzzle 9. What comes next in the sequence?

4	23	102	307	728	1479	2698	?
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- A) 4571
 B) 3917
 C) 4547
 D) 4523

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

4	6	6
4	5	12
7	2	?

- A) 17
 B) 12
 C) 22
 D) 16

Answer Key

1. **C) 20**

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

6. **B) 5072**

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

2. **A) 5048**

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

7. **D) 25**

Row sums form arithmetic sequence: 24, 30, 36.

3. **A) 4109**

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

8. **C) 4169**

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

4. **C) 19**

Row sums form arithmetic sequence: 19, 23, 27.

9. **C) 4547**

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

5. **A) 4600**

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

10. **A) 17**

Row sums form arithmetic sequence: 16, 21, 26.