

Pattern Puzzles – Pack 42

Puzzle 1. What comes next in the sequence?

5	17	77	245	605	1265	2357	?
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- A) 4013
 B) 4061
 C) 3449
 D) 4037

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

6	2	16
8	5	14
3	5	?

- A) 22
 B) 19
 C) 21
 D) 25

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

4	4	9
7	4	11
3	8	?

- A) 16
 B) 15
 C) 11
 D) 21

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

7	3	14
5	6	15
5	2	?

- A) 20
 B) 23
 C) 19
 D) 21

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

3	3	8
7	4	9
5	4	?

- A) 23
 B) 11
 C) 16
 D) 17

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

3	2	19
5	4	17
7	8	?

- A) 11
 B) 13
 C) 15
 D) 12

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

5	7	13
6	3	20
8	8	?

- A) 21
 B) 16
 C) 13
 D) 17

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

8	3	1
5	6	4
2	2	?

- A) 13
 B) 17
 C) 11
 D) 14

Puzzle 9. What comes next in the sequence?

9	35	125	345	785	1559	2805	?
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- A) 4661
 B) 4051
 C) 4709
 D) 4685

Puzzle 10. What comes next in the sequence?

9	32	109	300	689	1384	2517	?
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- A) 4220
 B) 4244
 C) 3650
 D) 4268

Answer Key

1. **D) 4037**
4th diffs: 24 (constant – quartic sequence).
2. **A) 22**
Row sums form arithmetic sequence: 24, 27, 30.
3. **A) 16**
Row sums form arithmetic sequence: 17, 22, 27.
4. **D) 21**
Row sums form arithmetic sequence: 24, 26, 28.
5. **D) 17**
Row sums form arithmetic sequence: 14, 20, 26.
6. **B) 13**
Row sums form arithmetic sequence: 24, 26, 28.
7. **D) 17**
Row sums form arithmetic sequence: 25, 29, 33.
8. **D) 14**
Row sums form arithmetic sequence: 12, 15, 18.
9. **D) 4685**
4th diffs: 24 (constant – quartic sequence).
10. **B) 4244**
4th diffs: 24 (constant – quartic sequence).