

Pattern Puzzles – Pack 20

Puzzle 1. What comes next in the sequence?

7	38	143	394	887	1742	3103	?
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- A) 5162 B) 5138 C) 5114 D) 4464

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

6	6	3
8	3	9
6	5	?

- A) 9 B) 19 C) 13 D) 14

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

6	4	12
2	4	18
7	2	?

- A) 19 B) 16 C) 15 D) 17

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

5	4	13
2	8	16
6	4	?

- A) 24 B) 19 C) 20 D) 16

Puzzle 5. What comes next in the sequence?

8	36	136	380	864	1708	3056	?
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- A) 5052 B) 4404 C) 5076 D) 5100

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

4	6	8
2	7	13
8	2	?

- A) 20
 B) 16
 C) 12
 D) 15

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

4	6	15
5	6	17
7	6	?

- A) 17
 B) 15
 C) 21
 D) 18

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

6	2	5
8	4	7
6	3	?

- A) 22
 B) 16
 C) 10
 D) 15

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

7	5	13
6	7	16
3	8	?

- A) 22
 B) 21
 C) 18
 D) 26

Puzzle 10. What comes next in the sequence?

5	33	133	377	861	1705	3053	?
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- A) 5097
 B) 5049
 C) 5073
 D) 4401

Answer Key

1. **B) 5138**

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

6. **B) 16**

Row sums form arithmetic sequence: 18, 22, 26.

2. **D) 14**

Row sums form arithmetic sequence: 15, 20, 25.

7. **D) 18**

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

3. **D) 17**

Row sums form arithmetic sequence: 22, 24, 26.

8. **B) 16**

Row sums form arithmetic sequence: 13, 19, 25.

4. **C) 20**

Row sums form arithmetic sequence: 22, 26, 30.

9. **A) 22**

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

5. **C) 5076**

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

10. **C) 5073**

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