

Pattern Puzzles – Pack 58

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

5	3	12
6	7	9
2	8	?

- A) 12
 B) 13
 C) 14
 D) 16

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

7	2	3
5	2	11
2	5	?

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

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

5	4	15
8	3	18
3	6	?

- A) 24
 B) 25
 C) 30
 D) 20

Puzzle 4. What comes next in the sequence?

1	14	77	250	617	1286	2389	?
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- A) 4106
 B) 3492
 C) 4058
 D) 4082

Puzzle 5. What comes next in the sequence?

6	40	152	414	922	1796	3180	?
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- A) 5218
 B) 4564
 C) 5242
 D) 5266

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

2	8	15
2	8	17
4	3	?

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

2	3	13
4	6	10
5	5	?

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

7	6	7
4	8	14
8	4	?

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Puzzle 9. What comes next in the sequence?

5	19	81	251	613	1275	2369	?
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Puzzle 10. What number replaces the question mark in the grid?

2	7	15
7	3	18
3	3	?

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Answer Key

1. **C) 14**

Row sums form arithmetic sequence: 20, 22, 24.

6. **D) 22**

Row sums form arithmetic sequence: 25, 27, 29.

2. **C) 17**

Row sums form arithmetic sequence: 12, 18, 24.

7. **B) 12**

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

3. **B) 25**

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

8. **B) 20**

Row sums form arithmetic sequence: 20, 26, 32.

4. **D) 4082**

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

9. **D) 4051**

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

5. **C) 5242**

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

10. **A) 26**

Row sums form arithmetic sequence: 24, 28, 32.