

Pattern Puzzles – Pack 40

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

5	5	2
8	6	4
7	7	?

- A) 10
 B) 16
 C) 9
 D) 4

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

4	6	7
3	8	11
4	8	?

- A) 15
 B) 10
 C) 14
 D) 20

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

3	5	5
6	2	9
7	7	?

- A) 11
 B) 7
 C) 3
 D) 6

Puzzle 4. What comes next in the sequence?

8	45	160	425	936	1813	3200	?
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- A) 5241
 B) 5265
 C) 4587
 D) 5289

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

6	6	4
6	5	7
3	5	?

- A) 14
 B) 11
 C) 12
 D) 10

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

5	3	5
4	2	13
7	2	?

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

Puzzle 7. What comes next in the sequence?

4	27	112	325	756	1519	2752	?
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- A) 4641
 B) 4593
 C) 3985
 D) 4617

Puzzle 8. What comes next in the sequence?

3	17	81	255	623	1293	2397	?
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- A) 4115
 B) 4067
 C) 3501
 D) 4091

Puzzle 9. What comes next in the sequence?

9	44	157	420	929	1804	3189	?
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- A) 5276
 B) 5252
 C) 5228
 D) 4574

Puzzle 10. What comes next in the sequence?

9	37	131	357	805	1589	2847	?
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- A) 4741
 B) 4105
 C) 4717
 D) 4765

Answer Key

1. **A) 10**

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

6. **A) 16**

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

2. **A) 15**

Row sums form arithmetic sequence: 17, 22, 27.

7. **D) 4617**

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

3. **B) 7**

Row sums form arithmetic sequence: 13, 17, 21.

8. **D) 4091**

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

4. **B) 5265**

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

9. **B) 5252**

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

5. **C) 12**

Row sums form arithmetic sequence: 16, 18, 20.

10. **A) 4741**

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