

Pattern Puzzles – Pack 39

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

5	6	2
8	5	5
8	5	?

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

4	5	9
7	3	12
3	7	?

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

8	8	1
5	4	13
3	2	?

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Puzzle 4. What comes next in the sequence?

7	34	127	352	799	1582	2839	?
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Puzzle 5. What comes next in the sequence?

3	25	109	321	751	1513	2745	?
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Puzzle 6. What number replaces the question mark in the grid?

6	3	16
3	6	19
3	3	?

- A) 25
 B) 22
 C) 28
 D) 24

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

7	3	9
7	4	11
3	4	?

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

Puzzle 8. What comes next in the sequence?

8	30	106	296	684	1378	2510	?
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- A) 4212
 B) 3642
 C) 4236
 D) 4260

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

7	4	7
5	3	12
3	2	?

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

Puzzle 10. What comes next in the sequence?

2	28	120	344	790	1572	2828	?
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- A) 4720
 B) 4084
 C) 4744
 D) 4696

Answer Key

1. **D) 10**

Row sums form arithmetic sequence: 13, 18, 23.

6. **A) 25**

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

2. **A) 16**

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

7. **B) 18**

Row sums form arithmetic sequence: 19, 22, 25.

3. **B) 22**

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

8. **C) 4236**

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

4. **C) 4732**

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

9. **C) 17**

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

5. **C) 4609**

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

10. **A) 4720**

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