

Pattern Puzzles – Pack 48

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

7	6	7
6	3	13
3	2	?

- A) 18
 B) 21
 C) 19
 D) 17

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

3	4	12
6	3	14
3	8	?

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

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

4	3	7
3	5	9
2	6	?

- A) 12
 B) 9
 C) 15
 D) 11

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

8	6	11
8	7	14
5	2	?

- A) 30
 B) 22
 C) 25
 D) 26

Puzzle 5. What comes next in the sequence?

0	14	78	252	620	1290	2394	?
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- A) 4088
 B) 4064
 C) 4112
 D) 3498

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

3	7	6
5	7	9
8	5	?

- A) 12
 B) 13
 C) 8
 D) 18

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

8	3	7
6	3	11
5	3	?

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

Puzzle 8. What comes next in the sequence?

1	24	111	328	765	1536	2779	?
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- A) 4656
 B) 4022
 C) 4632
 D) 4680

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

2	6	10
6	4	13
7	2	?

- A) 24
 B) 14
 C) 19
 D) 18

Puzzle 10. What number replaces the question mark in the grid?

7	3	7
6	2	11
4	7	?

- A) 8
 B) 12
 C) 9
 D) 10

Answer Key

1. **C) 19**

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

6. **B) 13**

Row sums form arithmetic sequence: 16, 21, 26.

2. **B) 16**

Row sums form arithmetic sequence: 19, 23, 27.

7. **C) 14**

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

3. **A) 12**

Row sums form arithmetic sequence: 14, 17, 20.

8. **A) 4656**

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

4. **D) 26**

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

9. **C) 19**

Row sums form arithmetic sequence: 18, 23, 28.

5. **A) 4088**

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

10. **D) 10**

Row sums form arithmetic sequence: 17, 19, 21.