

Pattern Puzzles – Pack 59

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

6	4	12
7	4	15
3	3	?

- A) 24
 B) 28
 C) 23
 D) 20

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

3	6	15
3	6	21
8	6	?

- A) 21
 B) 22
 C) 28
 D) 16

Puzzle 3. What comes next in the sequence?

9	29	101	285	665	1349	2469	?
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- A) 4181
 B) 3589
 C) 4157
 D) 4205

Puzzle 4. What comes next in the sequence?

8	44	158	422	932	1808	3194	?
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- A) 4580
 B) 5234
 C) 5258
 D) 5282

Puzzle 5. What comes next in the sequence?

9	39	135	363	813	1599	2859	?
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- A) 4779
 B) 4119
 C) 4755
 D) 4731

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

6	8	9
7	2	19
7	7	?

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

Puzzle 7. What comes next in the sequence?

4	26	102	292	680	1374	2506	?
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- A) 4256
 B) 4208
 C) 3638
 D) 4232

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

3	4	16
6	4	17
4	7	?

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

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

6	4	10
5	7	11
5	8	?

- A) 16
 B) 13
 C) 10
 D) 12

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

5	4	7
6	2	12
4	7	?

- A) 12
 B) 17
 C) 9
 D) 13

Answer Key

1. **A) 24**

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

6. **D) 19**

Row sums form arithmetic sequence: 23, 28, 33.

2. **B) 22**

Row sums form arithmetic sequence: 24, 30, 36.

7. **D) 4232**

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

3. **A) 4181**

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

8. **A) 20**

Row sums form arithmetic sequence: 23, 27, 31.

4. **C) 5258**

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

9. **B) 13**

Row sums form arithmetic sequence: 20, 23, 26.

5. **C) 4755**

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

10. **D) 13**

Row sums form arithmetic sequence: 16, 20, 24.