

Pattern Puzzles – Pack 29

Puzzle 1. What comes next in the sequence?

7	5	8	12	10	9	11	15	13	13	14	18	?
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|-------|-------|-------|-------|
| A) 17 | B) 16 | C) 11 | D) 15 |
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Puzzle 2. What number replaces the question mark in the grid?

3	1	4
6	1	14
1	13	?

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|------|------|------|------|
| A) 3 | B) 8 | C) 4 | D) 0 |
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Puzzle 3. What comes next in the sequence?

5	3	3	14	23	43	83	152	?
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|--------|--------|--------|--------|
| A) 284 | B) 278 | C) 281 | D) 261 |
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Puzzle 4. What number replaces the question mark in the grid?

6	2	3
4	15	10
11	11	?

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|-------|-------|-------|-------|
| A) 26 | B) 23 | C) 24 | D) 15 |
|-------|-------|-------|-------|

Puzzle 5. What comes next in the sequence?

3	2	2	9	15	28	54	99	?
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|--------|--------|--------|--------|
| A) 183 | B) 181 | C) 185 | D) 202 |
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Puzzle 6. What comes next in the sequence?

4	9	14	9	9	14	20	11	14	19	26	13	?
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- A) 24 B) 16 C) 19 D) 20

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

6	2	7
14	25	2
1	1	?

- A) 27 B) 22 C) 19 D) 28

Puzzle 8. What comes next in the sequence?

2	5	3	13	24	43	83	153	?
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- A) 282 B) 285 C) 337 D) 279

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

1	3	5
3	10	6
6	2	?

- A) 12 B) 11 C) 10 D) 4

Puzzle 10. What comes next in the sequence?

7	2	12	15	9	5	17	17	11	8	22	19	?
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- A) 14 B) 11 C) 17 D) 13

Answer Key

1. **B) 16**

Four interleaved arithmetic series (period 4):

6. **C) 19**

Four interleaved arithmetic series (period 4):

2. **A) 3**

Column sums are triangular numbers: 10, 15, 21.

7. **A) 27**

Column sums are triangular numbers: 21, 28, 36.

3. **C) 281**

Rule: $a(n) = a(n-1) + a(n-2) + a(n-3) + 3$.

8. **A) 282**

Rule: $a(n) = a(n-1) + a(n-2) + a(n-3) + 3$.

4. **B) 23**

Column sums are triangular numbers: 21, 28, 36.

9. **C) 10**

Column sums are triangular numbers: 10, 15, 21.

5. **A) 183**

Rule: $a(n) = a(n-1) + a(n-2) + a(n-3) + 2$.

10. **D) 13**

Four interleaved arithmetic series (period 4):