

Pattern Puzzles – Pack 10

Puzzle 1. What comes next in the sequence?

9	23	42	66	95	129	?
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- A) 140 B) 164 C) 168 D) 173

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

1	2	4
1	3	9
1	3	?

- A) 6 B) 8 C) 9 D) 13

Puzzle 3. What comes next in the sequence?

3	14	36	80	168	344	?
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- A) 697 B) 696 C) 688 D) 352

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

3	6	12
1	3	9
3	9	?

- A) 12 B) 26 C) 27 D) 18

Puzzle 5. What comes next in the sequence?

10	5	17	10	24	15	?
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- A) 29 B) 31 C) 32 D) 20

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Puzzle 6. What comes next in the sequence?

21	24	28	31	35	38	42	?
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|-------|-------|-------|-------|
| A) 44 | B) 45 | C) 49 | D) 46 |
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Puzzle 7. What comes next in the sequence?

2	10	34	106	322	970	?
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| A) 2910 | B) 2914 | C) 2915 | D) 974 |
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Puzzle 8. What comes next in the sequence?

13	25	28	40	43	55	58	?
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|-------|-------|-------|-------|
| A) 69 | B) 61 | C) 73 | D) 70 |
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Puzzle 9. What comes next in the sequence?

5	10	17	28	47	82	?
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|--------|--------|--------|-------|
| A) 146 | B) 149 | C) 150 | D) 85 |
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Puzzle 10. What comes next in the sequence?

18	8	28	15	38	22	?
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|-------|-------|-------|-------|
| A) 48 | B) 29 | C) 49 | D) 45 |
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Answer Key

1. **C) 168**

Formula: $5 \times n(n+1)/2 + 4n$.

6. **B) 45**

Sequence: 21, 24, 28, 31, 35, 38, 42, ...

2. **C) 9**

Each row is a geometric sequence. Row 3 ratio: $\times 3$.

7. **B) 2914**

Sequence: 2, 10, 34, 106, 322, 970, ...

3. **B) 696**

Sequence: 3, 14, 36, 80, 168, 344, ...

8. **D) 70**

Sequence: 13, 25, 28, 40, 43, 55, 58, ...

4. **C) 27**

Each row is a geometric sequence. Row 3 ratio: $\times 3$.

9. **B) 149**

Formula: $2^n + 3n$. $n=7$: $128 + 21 = 149$.

5. **B) 31**

Two interleaved series – odd: +7, even: +5.

10. **A) 48**

Two interleaved series – odd: +10, even: +7.