

Pattern Puzzles – Pack 44

Puzzle 1. What comes next in the sequence?

5	4	7	8	10	10	13	14	15	16	19	20	?
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- A) 22 B) 21 C) 20 D) 23

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

1	3	7
3	3	10
6	9	?

- A) 5 B) 6 C) 0 D) 4

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

4	1	11
4	3	18
9	6	?

- A) 50 B) 49 C) 10 D) 40

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

1	3	12
1	2	33
6	6	?

- A) 24 B) 37 C) 38 D) 17

Puzzle 5. What comes next in the sequence?

2	5	2	11	20	35	68	125	?
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- A) 228 B) 189 C) 232 D) 230

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Puzzle 6. What comes next in the sequence?

2	15	13	8	7	18	19	14	12	21	25	20	?
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A) 24	B) 18	C) 15	D) 17
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Puzzle 7. What comes next in the sequence?

12	7	10	9	19	9	12	12	26	11	14	15	?
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A) 28	B) 34	C) 13	D) 33
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Puzzle 8. What comes next in the sequence?

15	10	12	15	19	14	16	20	23	18	20	25	?
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A) 22	B) 24	C) 28	D) 27
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Puzzle 9. What comes next in the sequence?

6	44	168	456	1010	1956	3444	5648	?
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A) 8742	B) 8766	C) 5648	D) 8790
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Puzzle 10. What comes next in the sequence?

7	32	121	340	779	1552	2797	4676	?
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A) 7375	B) 4676	C) 7351	D) 7399
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Answer Key

1. **C) 20**

Four interleaved arithmetic series (period 4):

6. **D) 17**

Four interleaved arithmetic series (period 4):

2. **D) 4**

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

7. **D) 33**

Four interleaved arithmetic series (period 4):

3. **B) 49**

Row sums are perfect squares: 16, 25, 64.

8. **D) 27**

Four interleaved arithmetic series (period 4):

4. **B) 37**

Row sums are perfect squares: 16, 36, 49.

9. **B) 8766**

4th differences are all 24 (quartic sequence).

5. **D) 230**

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

10. **A) 7375**

4th differences are all 24 (quartic sequence).