

Pattern Puzzles – Pack 49

Puzzle 1. What comes next in the sequence?

7	7	9	15	9	14	23	11	?
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|-------|-------|-------|-------|
| A) 19 | B) 31 | C) 13 | D) 20 |
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Puzzle 2. What comes next in the sequence?

15	5	9	19	8	15	23	11	?
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| A) 14 | B) 22 | C) 27 | D) 21 |
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Puzzle 3. What comes next in the sequence?

10	23	52	103	182	295	448	?
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| A) 647 | B) 653 | C) 641 | D) 601 |
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Puzzle 4. What comes next in the sequence?

3	5	2	10	17	29	56	102	?
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| A) 187 | B) 158 | C) 131 | D) 198 |
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Puzzle 5. What comes next in the sequence?

5	21	55	113	201	325	491	?
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| A) 711 | B) 657 | C) 699 | D) 705 |
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Puzzle 6. What comes next in the sequence?

15	10	12	22	15	15	29	20	?
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| A) 36 | B) 19 | C) 25 | D) 18 |
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Puzzle 7. What comes next in the sequence?

15	30	26	52	48	96	92	184	?
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| A) 368 | B) 369 | C) 184 | D) 180 |
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Puzzle 8. What comes next in the sequence?

3	4	2	9	15	26	50	91	?
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| A) 117 | B) 141 | C) 163 | D) 167 |
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Puzzle 9. What comes next in the sequence?

13	28	59	112	193	308	463	?
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| A) 670 | B) 618 | C) 664 | D) 658 |
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Puzzle 10. What comes next in the sequence?

10	5	13	15	12	19	20	19	?
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| A) 25 | B) 22 | C) 20 | D) 26 |
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Answer Key

1. **A) 19**
Three interleaved arithmetic series (period 3).
2. **D) 21**
Three interleaved arithmetic series (period 3).
3. **A) 647**
1st diffs: 13, 29, 51, 79, 113, 153.
4. **A) 187**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).
5. **D) 705**
1st diffs: 16, 34, 58, 88, 124, 166.
6. **D) 18**
Three interleaved arithmetic series (period 3).
7. **A) 368**
Alternating: $\times 2$ (odd steps), -4 (even steps).
8. **D) 167**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).
9. **C) 664**
1st diffs: 15, 31, 53, 81, 115, 155.
10. **A) 25**
Three interleaved arithmetic series (period 3).