

Pattern Puzzles – Pack 41

Puzzle 1. What comes next in the sequence?

2	4	8	7	9	11	12	14	?
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|-------|-------|-------|-------|
| A) 14 | B) 19 | C) 15 | D) 17 |
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Puzzle 2. What comes next in the sequence?

5	5	1	11	17	29	57	103	?
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| A) 132 | B) 162 | C) 160 | D) 189 |
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Puzzle 3. What comes next in the sequence?

4	5	12	10	7	19	16	9	?
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| A) 22 | B) 26 | C) 11 | D) 27 |
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Puzzle 4. What comes next in the sequence?

11	9	8	18	13	10	25	17	?
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| A) 32 | B) 13 | C) 21 | D) 12 |
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Puzzle 5. What comes next in the sequence?

9	18	39	78	141	234	363	?
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| A) 534 | B) 540 | C) 528 | D) 492 |
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Puzzle 6. What comes next in the sequence?

8	16	13	26	23	46	43	86	?
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| A) 83 | B) 173 | C) 172 | D) 86 |
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Puzzle 7. What comes next in the sequence?

-1	4	21	56	115	204	329	?
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| A) 496 | B) 502 | C) 490 | D) 454 |
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Puzzle 8. What comes next in the sequence?

12	6	5	20	13	9	28	20	?
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| A) 27 | B) 13 | C) 14 | D) 36 |
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Puzzle 9. What comes next in the sequence?

15	30	23	46	39	78	71	142	?
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| A) 135 | B) 285 | C) 284 | D) 142 |
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Puzzle 10. What comes next in the sequence?

5	3	2	10	15	27	52	94	?
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| A) 204 | B) 146 | C) 121 | D) 173 |
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Answer Key

1. **A) 14**
Three interleaved arithmetic series (period 3).
2. **D) 189**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).
3. **B) 26**
Three interleaved arithmetic series (period 3).
4. **D) 12**
Three interleaved arithmetic series (period 3).
5. **A) 534**
1st diffs: 9, 21, 39, 63, 93, 129.
6. **C) 172**
Alternating: $\times 2$ (odd steps), -3 (even steps).
7. **A) 496**
1st diffs: 5, 17, 35, 59, 89, 125.
8. **B) 13**
Three interleaved arithmetic series (period 3).
9. **C) 284**
Alternating: $\times 2$ (odd steps), -7 (even steps).
10. **D) 173**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).