

Pattern Puzzles – Pack 50

Puzzle 1. What comes next in the sequence?

6	10	14	14	15	20	22	20	?
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| A) 30 | B) 25 | C) 26 | D) 27 |
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Puzzle 2. What comes next in the sequence?

10	11	14	23	50	131	374	?
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| A) 860 | B) 617 | C) 1104 | D) 1103 |
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Puzzle 3. What comes next in the sequence?

7	13	31	67	127	217	343	?
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| A) 505 | B) 517 | C) 511 | D) 469 |
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Puzzle 4. What comes next in the sequence?

1	4	4	9	17	30	56	103	?
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| A) 191 | B) 133 | C) 189 | D) 159 |
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Puzzle 5. What comes next in the sequence?

6	2	4	11	10	10	16	18	?
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| A) 16 | B) 26 | C) 17 | D) 21 |
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Puzzle 6. What comes next in the sequence?

5	13	5	9	19	10	13	25	?
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| A) 31 | B) 16 | C) 15 | D) 17 |
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Puzzle 7. What comes next in the sequence?

3	12	35	78	147	248	387	?
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| A) 564 | B) 576 | C) 526 | D) 570 |
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Puzzle 8. What comes next in the sequence?

2	3	5	9	17	33	65	?
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| A) 97 | B) 129 | C) 130 | D) 150 |
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Puzzle 9. What comes next in the sequence?

5	15	4	13	19	7	21	23	?
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| A) 10 | B) 11 | C) 27 | D) 29 |
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Puzzle 10. What comes next in the sequence?

1	5	4	10	19	33	62	114	?
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| A) 208 | B) 209 | C) 176 | D) 147 |
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Answer Key

1. **C) 26**
Three interleaved arithmetic series (period 3).
2. **D) 1103**
Differences form geometric sequence ($\times 3$): 1, 3, 9, 27, 81, 243, 729.
3. **C) 511**
1st diffs: 6, 18, 36, 60, 90, 126.
4. **C) 189**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).
5. **A) 16**
Three interleaved arithmetic series (period 3).
6. **C) 15**
Three interleaved arithmetic series (period 3).
7. **D) 570**
1st diffs: 9, 23, 43, 69, 101, 139.
8. **B) 129**
Differences form geometric sequence ($\times 2$): 1, 2, 4, 8, 16, 32, 64.
9. **A) 10**
Three interleaved arithmetic series (period 3).
10. **B) 209**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).