

Pattern Puzzles – Pack 7

Puzzle 1. What comes next in the sequence?

1	1	4	6	11	21	38	70	?
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|--------|-------|--------|--------|
| A) 123 | B) 91 | C) 129 | D) 108 |
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Puzzle 2. What comes next in the sequence?

15	7	11	19	13	14	23	19	?
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| A) 25 | B) 18 | C) 27 | D) 17 |
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Puzzle 3. What comes next in the sequence?

7	26	63	124	215	342	511	?
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| A) 728 | B) 680 | C) 722 | D) 734 |
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Puzzle 4. What comes next in the sequence?

14	16	20	28	44	76	140	?
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| A) 295 | B) 270 | C) 268 | D) 204 |
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Puzzle 5. What comes next in the sequence?

7	16	34	70	142	286	?
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| A) 573 | B) 286 | C) 574 | D) 572 |
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Puzzle 6. What comes next in the sequence?

5	12	4	10	17	12	15	22	?
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| A) 20 | B) 22 | C) 21 | D) 27 |
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Puzzle 7. What comes next in the sequence?

8	22	50	106	218	442	?
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| A) 884 | B) 890 | C) 442 | D) 889 |
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Puzzle 8. What comes next in the sequence?

7	8	7	14	14	11	21	20	?
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| A) 16 | B) 28 | C) 15 | D) 26 |
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Puzzle 9. What comes next in the sequence?

9	5	7	15	11	13	21	17	?
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| A) 20 | B) 19 | C) 27 | D) 23 |
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Puzzle 10. What comes next in the sequence?

12	12	6	14	17	13	16	22	?
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| A) 21 | B) 20 | C) 27 | D) 18 |
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Answer Key

1. **C) 129**

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

2. **D) 17**

Three interleaved arithmetic series (period 3).

3. **A) 728**

1st diffs: 19, 37, 61, 91, 127, 169.

4. **C) 268**

Differences form geometric sequence ($\times 2$): 2, 4, 8,
16, 32, 64, 128.

5. **C) 574**

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

6. **A) 20**

Three interleaved arithmetic series (period 3).

7. **B) 890**

Rule: $a(n) = 2 \times a(n-1) + 6$.

8. **C) 15**

Three interleaved arithmetic series (period 3).

9. **B) 19**

Three interleaved arithmetic series (period 3).

10. **B) 20**

Three interleaved arithmetic series (period 3).