

Pattern Puzzles – Pack 52

Puzzle 1. What comes next in the sequence?

3	4	8	9	12	13	15	20	?
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A) 18	B) 21	C) 19	D) 28
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Puzzle 2. What comes next in the sequence?

5	8	3	12	14	8	19	20	?
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A) 26	B) 8	C) 14	D) 13
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Puzzle 3. What comes next in the sequence?

13	39	29	87	77	231	221	663	?
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A) 1990	B) 663	C) 1989	D) 653
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Puzzle 4. What comes next in the sequence?

15	30	21	42	33	66	57	114	?
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A) 114	B) 229	C) 105	D) 228
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Puzzle 5. What comes next in the sequence?

13	17	25	41	73	137	265	?
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A) 521	B) 393	C) 541	D) 525
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Puzzle 6. What comes next in the sequence?

19	57	53	159	155	465	461	1383	?
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A) 4149	B) 1383	C) 4150	D) 1379
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Puzzle 7. What comes next in the sequence?

10	5	5	16	8	7	22	11	?
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A) 10	B) 9	C) 28	D) 14
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Puzzle 8. What comes next in the sequence?

13	5	7	18	10	10	23	15	?
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A) 14	B) 20	C) 28	D) 13
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Puzzle 9. What comes next in the sequence?

14	28	24	48	44	88	84	168	?
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A) 164	B) 337	C) 168	D) 336
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Puzzle 10. What comes next in the sequence?

2	3	4	9	16	29	54	99	?
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A) 188	B) 153	C) 128	D) 182
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Answer Key

1. **A) 18**
Three interleaved arithmetic series (period 3).
2. **D) 13**
Three interleaved arithmetic series (period 3).
3. **C) 1989**
Alternating: $\times 3$ (odd steps), -10 (even steps).
4. **D) 228**
Alternating: $\times 2$ (odd steps), -9 (even steps).
5. **A) 521**
Differences form geometric sequence ($\times 2$): 4, 8, 16, 32, 64, 128, 256.
6. **A) 4149**
Alternating: $\times 3$ (odd steps), -4 (even steps).
7. **B) 9**
Three interleaved arithmetic series (period 3).
8. **D) 13**
Three interleaved arithmetic series (period 3).
9. **D) 336**
Alternating: $\times 2$ (odd steps), -4 (even steps).
10. **D) 182**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).