

Pattern Puzzles – Pack 56

Puzzle 1. What comes next in the sequence?

1	4	3	8	15	26	49	90	?
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A) 135	B) 116	C) 139	D) 165
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Puzzle 2. What comes next in the sequence?

11	12	8	13	14	10	15	16	?
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A) 18	B) 17	C) 13	D) 12
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Puzzle 3. What comes next in the sequence?

15	2	6	23	7	10	31	12	?
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A) 17	B) 14	C) 39	D) 15
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Puzzle 4. What comes next in the sequence?

12	4	12	16	9	14	20	14	?
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A) 17	B) 24	C) 19	D) 16
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Puzzle 5. What comes next in the sequence?

4	5	1	10	16	27	53	96	?
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A) 176	B) 123	C) 149	D) 140
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Puzzle 6. What comes next in the sequence?

18	54	47	141	134	402	395	1185	?
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A) 1178	B) 3556	C) 3555	D) 1185
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Puzzle 7. What comes next in the sequence?

20	60	52	156	148	444	436	1308	?
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A) 1308	B) 3924	C) 1300	D) 3925
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Puzzle 8. What comes next in the sequence?

11	22	19	38	35	70	67	134	?
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A) 131	B) 269	C) 268	D) 134
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Puzzle 9. What comes next in the sequence?

13	30	63	118	201	318	475	?
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A) 632	B) 672	C) 684	D) 678
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Puzzle 10. What comes next in the sequence?

6	4	11	14	7	13	22	10	?
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A) 30	B) 13	C) 15	D) 16
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Answer Key

1. **D) 165**

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

6. **C) 3555**

Alternating: $\times 3$ (odd steps), -7 (even steps).

2. **D) 12**

Three interleaved arithmetic series (period 3).

7. **B) 3924**

Alternating: $\times 3$ (odd steps), -8 (even steps).

3. **B) 14**

Three interleaved arithmetic series (period 3).

8. **C) 268**

Alternating: $\times 2$ (odd steps), -3 (even steps).

4. **D) 16**

Three interleaved arithmetic series (period 3).

9. **D) 678**

1st diffs: 17, 33, 55, 83, 117, 157.

5. **A) 176**

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

10. **C) 15**

Three interleaved arithmetic series (period 3).