

Pattern Puzzles – Pack 40

Puzzle 1. What comes next in the sequence?

4	15	13	6	18	18	8	21	?
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A) 23	B) 10	C) 24	D) 26
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Puzzle 2. What comes next in the sequence?

13	2	12	16	6	16	19	10	?
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A) 22	B) 20	C) 21	D) 14
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Puzzle 3. What comes next in the sequence?

8	24	19	57	52	156	151	453	?
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A) 453	B) 448	C) 1360	D) 1359
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Puzzle 4. What comes next in the sequence?

11	33	24	72	63	189	180	540	?
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A) 540	B) 531	C) 1620	D) 1621
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Puzzle 5. What comes next in the sequence?

4	10	6	9	15	13	14	20	?
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A) 19	B) 25	C) 21	D) 20
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Puzzle 6. What comes next in the sequence?

4	18	48	100	180	294	448	?
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| A) 654 | B) 602 | C) 648 | D) 642 |
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Puzzle 7. What comes next in the sequence?

13	39	36	108	105	315	312	936	?
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| A) 936 | B) 2809 | C) 933 | D) 2808 |
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Puzzle 8. What comes next in the sequence?

2	4	5	11	20	36	67	123	?
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| A) 190 | B) 215 | C) 159 | D) 226 |
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Puzzle 9. What comes next in the sequence?

5	16	41	86	157	260	401	?
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| A) 580 | B) 586 | C) 542 | D) 592 |
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Puzzle 10. What comes next in the sequence?

11	22	13	26	17	34	25	50	?
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| A) 101 | B) 100 | C) 41 | D) 50 |
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Answer Key

1. **A) 23**
Three interleaved arithmetic series (period 3).
2. **B) 20**
Three interleaved arithmetic series (period 3).
3. **D) 1359**
Alternating: $\times 3$ (odd steps), -5 (even steps).
4. **C) 1620**
Alternating: $\times 3$ (odd steps), -9 (even steps).
5. **D) 20**
Three interleaved arithmetic series (period 3).
6. **C) 648**
1st diffs: 14, 30, 52, 80, 114, 154.
7. **D) 2808**
Alternating: $\times 3$ (odd steps), -3 (even steps).
8. **D) 226**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).
9. **B) 586**
1st diffs: 11, 25, 45, 71, 103, 141.
10. **B) 100**
Alternating: $\times 2$ (odd steps), -9 (even steps).