

## Pattern Puzzles – Pack 54

**Puzzle 1.** What comes next in the sequence?

10	27	60	115	198	315	472	?
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A) 675	B) 681	C) 669	D) 629
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**Puzzle 2.** What comes next in the sequence?

12	4	5	16	6	11	20	8	?
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A) 24	B) 10	C) 18	D) 17
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**Puzzle 3.** What comes next in the sequence?

12	9	4	14	13	12	16	17	?
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A) 21	B) 18	C) 20	D) 23
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**Puzzle 4.** What comes next in the sequence?

15	7	9	21	15	12	27	23	?
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A) 15	B) 31	C) 16	D) 33
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**Puzzle 5.** What comes next in the sequence?

2	2	3	7	12	22	41	75	?
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A) 116	B) 114	C) 138	D) 97
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**Puzzle 6.** What comes next in the sequence?

10	13	5	17	15	7	24	17	?
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A) 19	B) 10	C) 9	D) 31
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**Puzzle 7.** What comes next in the sequence?

2	12	2	8	18	7	14	24	?
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A) 20	B) 12	C) 13	D) 30
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**Puzzle 8.** What comes next in the sequence?

7	2	13	11	7	15	15	12	?
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A) 18	B) 19	C) 21	D) 17
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**Puzzle 9.** What comes next in the sequence?

5	22	57	116	205	330	497	?
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A) 664	B) 706	C) 718	D) 712
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**Puzzle 10.** What comes next in the sequence?

4	3	7	9	10	13	14	17	?
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A) 20	B) 19	C) 24	D) 15
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## Answer Key

1. **A) 675**  
1st diffs: 17, 33, 55, 83, 117, 157.
2. **D) 17**  
Three interleaved arithmetic series (period 3).
3. **C) 20**  
Three interleaved arithmetic series (period 3).
4. **A) 15**  
Three interleaved arithmetic series (period 3).
5. **C) 138**  
Rule:  $a(n) = a(n-1) + a(n-2) + a(n-3)$   
(tribonacci).
6. **C) 9**  
Three interleaved arithmetic series (period 3).
7. **B) 12**  
Three interleaved arithmetic series (period 3).
8. **D) 17**  
Three interleaved arithmetic series (period 3).
9. **D) 712**  
1st diffs: 17, 35, 59, 89, 125, 167.
10. **B) 19**  
Three interleaved arithmetic series (period 3).