Pattern Puzzles — Pack 19

Puzzle 1. What comes next in the sequence?

15	3	13	21	9	19	27	15	?

A) 25 B) 21 C) 33 D) 26

Puzzle 2. What comes next in the sequence?

8	2	13	16	6	19	24	10	?

A) 14 B) 26 C) 32 D) 25

Puzzle 3. What comes next in the sequence?

11	15	4	18	21	11	25	27	?

A) 33 B) 18 C) 19 D) 32

Puzzle 4. What comes next in the sequence?

14	42	38	114	110	330	326	978	?

A) 974 B) 2935 C) 2934 D) 978

Puzzle 5. What comes next in the sequence?

3	12	33	72	135	228	357	?

A) 528 B) 522 C) 534 D) 486

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Puzzle 6. What comes next in the sequence?

5	14	32	68	140	284	?

A) 572 B) 284 C) 571 D) 568

Puzzle 7. What comes next in the sequence?

14	28	16	32	20	40	28	56	?

A) 56 B) 112 C) 44 D) 113

Puzzle 8. What comes next in the sequence?

2	7	17	37	77	157	?

A) 316 B) 317 C) 157 D) 314

Puzzle 9. What comes next in the sequence?

9	10	13	22	49	130	373	?

A) 616 B) 1103 C) 1102 D) 859

Puzzle 10. What comes next in the sequence?

8	24	58	116	204	328	494	?

A) 660 B) 708 C) 702 D) 714

Answer Key

1. **A) 25**
Three interleaved arithmetic series (period 3).

2. **D) 25**
Three interleaved arithmetic series (period 3).

3. **B) 18**
Three interleaved arithmetic series (period 3).

4. **C) 2934**
Alternating: ×3 (odd steps), -4 (even steps).

5. **A) 528**
1st diffs: 9, 21, 39, 63, 93, 129.

6. **A) 572**
Rule: a(n) = 2×a(n-1) + 4.

7. **B) 112**
Alternating: ×2 (odd steps), -12 (even steps).

8. **B) 317**
Rule: a(n) = 2×a(n-1) + 3.

9. **C) 1102**
Differences form geometric sequence (×3): 1, 3, 9, 27, 81, 243, 729.

10. **B) 708**
1st diffs: 16, 34, 58, 88, 124, 166.