

Pattern Puzzles – Pack 15

Puzzle 1. What comes next in the sequence?

11	22	10	20	8	16	4	8	?
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A) 12	B) 8	C) 16	D) 17
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Puzzle 2. What comes next in the sequence?

8	8	10	16	10	15	24	12	?
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A) 20	B) 14	C) 21	D) 32
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Puzzle 3. What comes next in the sequence?

3	1	4	8	13	25	46	84	?
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A) 109	B) 155	C) 130	D) 154
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Puzzle 4. What comes next in the sequence?

10	30	18	54	42	126	114	342	?
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A) 330	B) 342	C) 1027	D) 1026
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Puzzle 5. What comes next in the sequence?

8	24	21	63	60	180	177	531	?
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A) 528	B) 1594	C) 1593	D) 531
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Puzzle 6. What comes next in the sequence?

5	6	9	10	13	11	15	20	?
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| A) 27 | B) 14 | C) 13 | D) 20 |
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Puzzle 7. What comes next in the sequence?

15	45	42	126	123	369	366	1098	?
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| A) 3294 | B) 1095 | C) 1098 | D) 3295 |
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Puzzle 8. What comes next in the sequence?

3	3	2	8	13	23	44	80	?
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| A) 124 | B) 103 | C) 138 | D) 147 |
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Puzzle 9. What comes next in the sequence?

11	28	63	122	211	336	503	?
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| A) 718 | B) 670 | C) 724 | D) 712 |
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Puzzle 10. What comes next in the sequence?

19	38	30	60	52	104	96	192	?
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| A) 192 | B) 184 | C) 384 | D) 385 |
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Answer Key

1. **C) 16**
Alternating: $\times 2$ (odd steps), -12 (even steps).
2. **A) 20**
Three interleaved arithmetic series (period 3).
3. **B) 155**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).
4. **D) 1026**
Alternating: $\times 3$ (odd steps), -12 (even steps).
5. **C) 1593**
Alternating: $\times 3$ (odd steps), -3 (even steps).
6. **C) 13**
Three interleaved arithmetic series (period 3).
7. **A) 3294**
Alternating: $\times 3$ (odd steps), -3 (even steps).
8. **D) 147**
Rule: $a(n) = a(n-1) + a(n-2) + a(n-3)$
(tribonacci).
9. **A) 718**
1st diffs: 17, 35, 59, 89, 125, 167.
10. **C) 384**
Alternating: $\times 2$ (odd steps), -8 (even steps).