

Pattern Puzzles – Pack 23

Puzzle 1. What comes next in the sequence?

2	5	4	11	20	35	66	121	?
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|--------|--------|--------|--------|
| A) 187 | B) 216 | C) 156 | D) 222 |
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Puzzle 2. What comes next in the sequence?

8	10	16	34	88	250	736	?
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| A) 2196 | B) 1708 | C) 1222 | D) 2194 |
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Puzzle 3. What comes next in the sequence?

19	38	26	52	40	80	68	136	?
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| A) 124 | B) 273 | C) 136 | D) 272 |
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Puzzle 4. What comes next in the sequence?

14	4	13	20	10	20	26	16	?
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| A) 22 | B) 28 | C) 32 | D) 27 |
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Puzzle 5. What comes next in the sequence?

8	24	16	48	40	120	112	336	?
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| A) 1009 | B) 336 | C) 1008 | D) 328 |
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Puzzle 6. What comes next in the sequence?

16	32	27	54	49	98	93	186	?
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| A) 186 | B) 373 | C) 181 | D) 372 |
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Puzzle 7. What comes next in the sequence?

8	12	20	36	68	132	260	?
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| A) 516 | B) 561 | C) 388 | D) 520 |
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Puzzle 8. What comes next in the sequence?

3	4	3	10	17	30	57	104	?
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| A) 191 | B) 161 | C) 134 | D) 207 |
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Puzzle 9. What comes next in the sequence?

11	14	23	50	131	374	1103	?
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| A) 3290 | B) 3293 | C) 1832 | D) 2561 |
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Puzzle 10. What comes next in the sequence?

12	14	18	26	42	74	138	?
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| A) 202 | B) 229 | C) 266 | D) 268 |
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Answer Key

1. **D) 222**

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

2. **D) 2194**

Differences form geometric sequence ($\times 3$): 2, 6,
18, 54, 162, 486, 1458.

3. **D) 272**

Alternating: $\times 2$ (odd steps), -12 (even steps).

4. **D) 27**

Three interleaved arithmetic series (period 3).

5. **C) 1008**

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

6. **D) 372**

Alternating: $\times 2$ (odd steps), -5 (even steps).

7. **A) 516**

Differences form geometric sequence ($\times 2$): 4, 8,
16, 32, 64, 128, 256.

8. **A) 191**

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

9. **A) 3290**

Differences form geometric sequence ($\times 3$): 3, 9,
27, 81, 243, 729, 2187.

10. **C) 266**

Differences form geometric sequence ($\times 2$): 2, 4, 8,
16, 32, 64, 128.