

Pattern Puzzles – Pack 27

Puzzle 1. What comes next in the sequence?

15	17	23	41	95	257	743	?
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|---------|---------|---------|---------|
| A) 2203 | B) 1715 | C) 2201 | D) 1229 |
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Puzzle 2. What comes next in the sequence?

8	22	54	110	196	318	482	?
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| A) 694 | B) 646 | C) 688 | D) 700 |
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Puzzle 3. What comes next in the sequence?

6	13	11	8	20	18	10	27	?
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| A) 26 | B) 12 | C) 34 | D) 25 |
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Puzzle 4. What comes next in the sequence?

5	7	13	11	11	18	17	15	?
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| A) 24 | B) 19 | C) 23 | D) 20 |
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Puzzle 5. What comes next in the sequence?

16	32	22	44	34	68	58	116	?
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| A) 232 | B) 106 | C) 233 | D) 116 |
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Puzzle 6. What comes next in the sequence?

14	33	70	131	222	349	518	?
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| A) 741 | B) 687 | C) 735 | D) 729 |
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Puzzle 7. What comes next in the sequence?

20	60	55	165	160	480	475	1425	?
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| A) 1420 | B) 4276 | C) 4275 | D) 1425 |
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Puzzle 8. What comes next in the sequence?

11	26	59	116	203	326	491	?
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|--------|--------|--------|--------|
| A) 698 | B) 704 | C) 656 | D) 710 |
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Puzzle 9. What comes next in the sequence?

15	30	19	38	27	54	43	86	?
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| A) 173 | B) 75 | C) 172 | D) 86 |
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Puzzle 10. What comes next in the sequence?

13	26	15	30	19	38	27	54	?
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| A) 54 | B) 108 | C) 109 | D) 43 |
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Answer Key

1. **C) 2201**

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

6. **C) 735**

1st diffs: 19, 37, 61, 91, 127, 169.

2. **A) 694**

1st diffs: 14, 32, 56, 86, 122, 164.

7. **C) 4275**

Alternating: $\times 3$ (odd steps), -5 (even steps).

3. **D) 25**

Three interleaved arithmetic series (period 3).

8. **B) 704**

1st diffs: 15, 33, 57, 87, 123, 165.

4. **C) 23**

Three interleaved arithmetic series (period 3).

9. **C) 172**

Alternating: $\times 2$ (odd steps), -11 (even steps).

5. **A) 232**

Alternating: $\times 2$ (odd steps), -10 (even steps).

10. **B) 108**

Alternating: $\times 2$ (odd steps), -11 (even steps).