

Pattern Puzzles – Pack 59

Puzzle 1. What comes next in the sequence?

17	34	30	60	56	112	108	216	?
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|--------|--------|--------|--------|
| A) 432 | B) 216 | C) 433 | D) 212 |
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Puzzle 2. What comes next in the sequence?

12	24	19	38	33	66	61	122	?
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| A) 244 | B) 122 | C) 245 | D) 117 |
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Puzzle 3. What comes next in the sequence?

13	15	19	27	43	75	139	?
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|--------|--------|--------|--------|
| A) 264 | B) 203 | C) 269 | D) 267 |
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Puzzle 4. What comes next in the sequence?

11	11	2	15	14	8	19	17	?
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| A) 20 | B) 23 | C) 14 | D) 15 |
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Puzzle 5. What comes next in the sequence?

9	19	43	87	157	259	399	?
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| A) 577 | B) 539 | C) 583 | D) 589 |
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Puzzle 6. What comes next in the sequence?

10	26	60	118	206	330	496	?
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| A) 704 | B) 662 | C) 716 | D) 710 |
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Puzzle 7. What comes next in the sequence?

6	15	6	11	17	11	16	19	?
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| A) 21 | B) 16 | C) 19 | D) 17 |
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Puzzle 8. What comes next in the sequence?

19	57	50	150	143	429	422	1266	?
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| A) 1266 | B) 3799 | C) 1259 | D) 3798 |
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Puzzle 9. What comes next in the sequence?

15	30	20	40	30	60	50	100	?
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| A) 201 | B) 200 | C) 90 | D) 100 |
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Puzzle 10. What comes next in the sequence?

8	15	34	71	132	223	350	?
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| A) 513 | B) 477 | C) 519 | D) 525 |
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Answer Key

1. **A) 432**

Alternating: $\times 2$ (odd steps), -4 (even steps).

6. **D) 710**

1st diffs: 16, 34, 58, 88, 124, 166.

2. **A) 244**

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

7. **B) 16**

Three interleaved arithmetic series (period 3).

3. **D) 267**

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

8. **D) 3798**

Alternating: $\times 3$ (odd steps), -7 (even steps).

4. **C) 14**

Three interleaved arithmetic series (period 3).

9. **B) 200**

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

5. **C) 583**

1st diffs: 10, 24, 44, 70, 102, 140.

10. **C) 519**

1st diffs: 7, 19, 37, 61, 91, 127.