

Pattern Puzzles – Pack 44

Puzzle 1. What comes next in the sequence?

2	7	9	4	13	13	6	19	?
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| A) 18 | B) 17 | C) 25 | D) 8 |
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Puzzle 2. What comes next in the sequence?

5	14	35	74	137	230	359	?
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| A) 536 | B) 530 | C) 524 | D) 488 |
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Puzzle 3. What comes next in the sequence?

11	3	13	13	6	17	15	9	?
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| A) 17 | B) 22 | C) 21 | D) 12 |
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Puzzle 4. What comes next in the sequence?

14	15	18	27	54	135	378	?
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| A) 621 | B) 1107 | C) 864 | D) 1108 |
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Puzzle 5. What comes next in the sequence?

5	11	29	65	125	215	341	?
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| A) 509 | B) 467 | C) 503 | D) 515 |
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Puzzle 6. What comes next in the sequence?

12	24	15	30	21	42	33	66	?
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|--------|-------|-------|--------|
| A) 133 | B) 66 | C) 57 | D) 132 |
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Puzzle 7. What comes next in the sequence?

20	60	53	159	152	456	449	1347	?
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| A) 4042 | B) 1347 | C) 4041 | D) 1340 |
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Puzzle 8. What comes next in the sequence?

14	30	62	116	198	314	470	?
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| A) 672 | B) 626 | C) 678 | D) 666 |
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Puzzle 9. What comes next in the sequence?

0	8	30	72	140	240	378	?
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| A) 516 | B) 560 | C) 566 | D) 554 |
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Puzzle 10. What comes next in the sequence?

15	3	7	22	6	9	29	9	?
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| A) 11 | B) 36 | C) 16 | D) 12 |
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Answer Key

1. **B) 17**

Three interleaved arithmetic series (period 3).

6. **D) 132**

Alternating: $\times 2$ (odd steps), -9 (even steps).

2. **B) 530**

1st diffs: 9, 21, 39, 63, 93, 129.

7. **C) 4041**

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

3. **C) 21**

Three interleaved arithmetic series (period 3).

8. **A) 672**

1st diffs: 16, 32, 54, 82, 116, 156.

4. **B) 1107**

Differences form geometric sequence ($\times 3$): 1, 3, 9, 27, 81, 243, 729.

9. **B) 560**

1st diffs: 8, 22, 42, 68, 100, 138.

5. **A) 509**

1st diffs: 6, 18, 36, 60, 90, 126.

10. **A) 11**

Three interleaved arithmetic series (period 3).