

Pattern Puzzles – Pack 60

Puzzle 1. What comes next in the sequence?

12	31	68	129	220	347	516	?
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|--------|--------|--------|--------|
| A) 739 | B) 685 | C) 733 | D) 727 |
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Puzzle 2. What comes next in the sequence?

6	3	15	10	11	19	14	19	?
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| A) 24 | B) 18 | C) 27 | D) 23 |
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Puzzle 3. What comes next in the sequence?

10	22	48	94	166	270	412	?
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| A) 598 | B) 604 | C) 592 | D) 554 |
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Puzzle 4. What comes next in the sequence?

17	51	41	123	113	339	329	987	?
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| A) 987 | B) 977 | C) 2962 | D) 2961 |
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Puzzle 5. What comes next in the sequence?

9	24	55	108	189	304	459	?
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| A) 614 | B) 654 | C) 666 | D) 660 |
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Puzzle 6. What comes next in the sequence?

2	14	13	9	17	20	16	20	?
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- A) 27 B) 28 C) 22 D) 23

Puzzle 7. What comes next in the sequence?

9	27	24	72	69	207	204	612	?
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- A) 1836 B) 609 C) 1837 D) 612

Puzzle 8. What comes next in the sequence?

11	12	15	24	51	132	375	?
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- A) 861 B) 1105 C) 618 D) 1104

Puzzle 9. What comes next in the sequence?

14	7	5	16	15	9	18	23	?
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- A) 20 B) 13 C) 31 D) 14

Puzzle 10. What comes next in the sequence?

9	27	22	66	61	183	178	534	?
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- A) 1603 B) 1602 C) 534 D) 529

Answer Key

1. **C) 733**

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

2. **D) 23**

Three interleaved arithmetic series (period 3).

3. **A) 598**

1st diffs: 12, 26, 46, 72, 104, 142.

4. **D) 2961**

Alternating: $\times 3$ (odd steps), -10 (even steps).

5. **D) 660**

1st diffs: 15, 31, 53, 81, 115, 155.

6. **A) 27**

Three interleaved arithmetic series (period 3).

7. **A) 1836**

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

8. **D) 1104**

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

9. **B) 13**

Three interleaved arithmetic series (period 3).

10. **B) 1602**

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