

Pattern Puzzles – Pack 28

Puzzle 1. What comes next in the sequence?

9 16 35 72 133 224 351 ?

- A) 514 B) 478 C) 520 D) 526

Puzzle 2. What comes next in the sequence?

16 48 38 114 104 312 302 906 ?

- A) 906 B) 896 C) 2719 D) 2718

Puzzle 3. What comes next in the sequence?

12 4 11 20 10 16 28 16 ?

- A) 36 B) 22 C) 25 D) 21

Puzzle 4. What comes next in the sequence?

14 12 11 18 17 16 22 22 ?

- A) 22 B) 27 C) 26 D) 21

Puzzle 5. What comes next in the sequence?

10 30 26 78 74 222 218 654 ?

- A) 654 B) 1962 C) 1963 D) 650

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Puzzle 6. What comes next in the sequence?

9	18	14	28	24	48	44	88	?
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|-------|--------|--------|-------|
| A) 88 | B) 177 | C) 176 | D) 84 |
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Puzzle 7. What comes next in the sequence?

3	5	3	11	19	33	63	115	?
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|--------|--------|--------|--------|
| A) 211 | B) 192 | C) 148 | D) 178 |
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Puzzle 8. What comes next in the sequence?

14	9	11	22	16	18	30	23	?
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| A) 26 | B) 30 | C) 38 | D) 25 |
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Puzzle 9. What comes next in the sequence?

17	34	27	54	47	94	87	174	?
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| A) 167 | B) 174 | C) 349 | D) 348 |
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Puzzle 10. What comes next in the sequence?

11	33	27	81	75	225	219	657	?
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| A) 1972 | B) 651 | C) 657 | D) 1971 |
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Answer Key

1. **C) 520**

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

6. **C) 176**

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

2. **D) 2718**

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

7. **A) 211**

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

3. **D) 21**

Three interleaved arithmetic series (period 3).

8. **D) 25**

Three interleaved arithmetic series (period 3).

4. **D) 21**

Three interleaved arithmetic series (period 3).

9. **D) 348**

Alternating: $\times 2$ (odd steps), -7 (even steps).

5. **B) 1962**

Alternating: $\times 3$ (odd steps), -4 (even steps).

10. **D) 1971**

Alternating: $\times 3$ (odd steps), -6 (even steps).