

## Pattern Puzzles – Pack 2

**Puzzle 1.** What comes next in the sequence?

10	12	16	24	40	72	136	?
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|--------|--------|--------|--------|
| A) 288 | B) 264 | C) 200 | D) 266 |
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**Puzzle 2.** What comes next in the sequence?

6	10	18	34	66	130	258	?
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|--------|--------|--------|--------|
| A) 518 | B) 386 | C) 514 | D) 569 |
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**Puzzle 3.** What comes next in the sequence?

14	2	2	20	6	4	26	10	?
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|-------|------|-------|------|
| A) 32 | B) 6 | C) 14 | D) 7 |
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**Puzzle 4.** What comes next in the sequence?

13	14	16	20	28	44	76	?
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|--------|--------|--------|--------|
| A) 131 | B) 108 | C) 141 | D) 140 |
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**Puzzle 5.** What comes next in the sequence?

5	2	4	11	17	32	60	109	?
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|--------|--------|--------|--------|
| A) 201 | B) 169 | C) 191 | D) 141 |
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**Puzzle 6.** What comes next in the sequence?

6	18	42	90	186	378	?
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|--------|--------|--------|--------|
| A) 762 | B) 761 | C) 756 | D) 378 |
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**Puzzle 7.** What comes next in the sequence?

8	11	12	13	16	17	18	21	?
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|-------|-------|-------|-------|
| A) 27 | B) 26 | C) 23 | D) 22 |
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**Puzzle 8.** What comes next in the sequence?

12	13	15	19	27	43	75	?
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|--------|--------|--------|--------|
| A) 138 | B) 139 | C) 107 | D) 140 |
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**Puzzle 9.** What comes next in the sequence?

7	3	4	12	8	8	17	13	?
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|-------|-------|-------|-------|
| A) 13 | B) 18 | C) 22 | D) 12 |
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**Puzzle 10.** What comes next in the sequence?

4	3	4	9	5	12	14	7	?
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|-------|------|-------|-------|
| A) 21 | B) 9 | C) 20 | D) 19 |
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## Answer Key

1. **B) 264**

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

6. **A) 762**

Rule:  $a(n) = 2 \times a(n-1) + 6$ .

2. **C) 514**

Differences form geometric sequence ( $\times 2$ ): 4, 8, 16, 32, 64, 128, 256.

7. **D) 22**

Three interleaved arithmetic series (period 3).

3. **B) 6**

Three interleaved arithmetic series (period 3).

8. **B) 139**

Differences form geometric sequence ( $\times 2$ ): 1, 2, 4, 8, 16, 32, 64.

4. **D) 140**

Differences form geometric sequence ( $\times 2$ ): 1, 2, 4, 8, 16, 32, 64.

9. **D) 12**

Three interleaved arithmetic series (period 3).

5. **A) 201**

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

10. **C) 20**

Three interleaved arithmetic series (period 3).