Pattern Puzzles — Pack 18

Puzzle 1. What comes next in the sequence?

4	2	4	6	8	18	12	54	20	?

A) 174 B) 32 C) 162 D) 163

Puzzle 2. What comes next in the sequence?

2	3	7	18	47	123	322	?

A) 2207 B) 521 C) 966 D) 2206

Puzzle 3. What number replaces the question mark in the grid?

1	1	3
2	1	5
4	1	?

A) 3 B) 11 C) 8 D) 7

Puzzle 4. What number replaces the question mark in the grid?

4	4	5
1	1	19
6	3	?

A) 25 B) 12 C) 24 D) 33

Puzzle 5. What comes next in the sequence?

2	4	2	12	4	36	6	108	10	?

A) 370 B) 16 C) 325 D) 324

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Puzzle 6. What number replaces the question mark in the grid?

7	4	10
5	2	27
8	17	?

A) 29 B) 9 C) 43 D) 30

Puzzle 7. What number replaces the question mark in the grid?

6	1	14
7	1	26
6	2	?

A) 26 B) 46 C) 60 D) 47

Puzzle 8. What number replaces the question mark in the grid?

2	1	10
3	6	12
11	1	?

A) 21 B) 30 C) 9 D) 22

Puzzle 9. What number replaces the question mark in the grid?

4	2	7
4	6	11
1	9	?

A) 11 B) 32 C) 23 D) 24

Puzzle 10. What number replaces the question mark in the grid?

2	1	5
3	3	7
5	4	?

A) 4 B) 17 C) 12 D) 11

Answer Key

1. **C) 162**
Odd positions: Fibonacci-like sequence starting 4, 4.

2. **A) 2207**
Rule: a(n) = 3×a(n-1) - a(n-2) (Lucas-type sequence).

3. **C) 8**
Row sums are Fibonacci numbers: F(5)=5, F(6)=8, F(7)=13.

4. **A) 25**
Row sums are Fibonacci numbers: F(7)=13, F(8)=21, F(9)=34.

5. **D) 324**
Odd positions: Fibonacci-like sequence starting 2, 2.

6. **D) 30**
Row sums are Fibonacci numbers: F(8)=21, F(9)=34, F(10)=55.

7. **D) 47**
Row sums are Fibonacci numbers: F(8)=21, F(9)=34, F(10)=55.

8. **D) 22**
Row sums are Fibonacci numbers: F(7)=13, F(8)=21, F(9)=34.

9. **D) 24**
Row sums are Fibonacci numbers: F(7)=13, F(8)=21, F(9)=34.

10. **C) 12**
Row sums are Fibonacci numbers: F(6)=8, F(7)=13, F(8)=21.