

Pattern Puzzles – Pack 2

Puzzle 1. What comes next in the sequence?

7	14	23	36	57	94	?
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A) 164	B) 158	C) 163	D) 99
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Puzzle 2. What comes next in the sequence?

9	18	29	44	67	106	?
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A) 178	B) 113	C) 177	D) 170
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Puzzle 3. What comes next in the sequence?

2	18	5	27	8	36	?
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A) 17	B) 45	C) 11	D) 12
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Puzzle 4. What number replaces the question mark in the grid?

3	9	27
3	9	27
2	6	?

A) 9	B) 18	C) 13	D) 15
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Puzzle 5. What comes next in the sequence?

6	12	20	32	52	88	?
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A) 92	B) 157	C) 152	D) 156
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Puzzle 6. What number replaces the question mark in the grid?

4	8	16
3	9	27
4	12	?

- A) 24
 B) 36
 C) 33
 D) 15

Puzzle 7. What comes next in the sequence?

2	6	14	30	62	126	?
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- A) 254
 B) 128
 C) 255
 D) 252

Puzzle 8. What comes next in the sequence?

10	19	23	32	36	45	49	?
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- A) 62
 B) 57
 C) 58
 D) 53

Puzzle 9. What comes next in the sequence?

17	5	24	9	31	13	?
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- A) 38
 B) 17
 C) 35
 D) 39

Puzzle 10. What comes next in the sequence?

27	64	125	216	343	?
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- A) 448
 B) 729
 C) 576
 D) 512

Answer Key

1. **C) 163**

Formula: $2^n + 5n$. $n=7$: $128 + 35 = 163$.

2. **C) 177**

Formula: $2^n + 7n$. $n=7$: $128 + 49 = 177$.

3. **C) 11**

Two interleaved series – odd: +3, even: +9.

4. **B) 18**

Each row is a geometric sequence. Row 3 ratio: $\times 3$.

5. **D) 156**

Formula: $2^n + 4n$. $n=7$: $128 + 28 = 156$.

6. **B) 36**

Each row is a geometric sequence. Row 3 ratio: $\times 3$.

7. **A) 254**

Sequence: 2, 6, 14, 30, 62, 126, ...

8. **C) 58**

Sequence: 10, 19, 23, 32, 36, 45, 49, ...

9. **A) 38**

Two interleaved series – odd: +7, even: +4.

10. **D) 512**

Sequence: 27, 64, 125, 216, 343, ... Cube roots: 3, 4, ...