

Pattern Puzzles – Pack 37

Puzzle 1. What number replaces the question mark in the grid?

4	12	36
3	9	27
3	6	?

- A) 18
 B) 27
 C) 8
 D) 12

Puzzle 2. What comes next in the sequence?

18	15	26	23	34	31	?
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- A) 43
 B) 36
 C) 39
 D) 42

Puzzle 3. What comes next in the sequence?

3	17	59	185	563	1697	?
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- A) 5100
 B) 5091
 C) 1705
 D) 5099

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

3	6	12
3	6	12
4	8	?

- A) 10
 B) 19
 C) 16
 D) 17

Puzzle 5. What comes next in the sequence?

11	16	17	23	23	30	?
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- A) 31
 B) 29
 C) 30
 D) 37

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Puzzle 6. What comes next in the sequence?

15	17	18	20	21	23	?
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 A) 27 B) 24 C) 25 D) 26

Puzzle 7. What comes next in the sequence?

30	35	38	43	46	51	54	?
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 A) 57 B) 62 C) 58 D) 59

Puzzle 8. What comes next in the sequence?

17	28	35	46	53	64	71	?
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 A) 89 B) 78 C) 81 D) 82

Puzzle 9. What comes next in the sequence?

20	4	23	9	26	14	?
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 A) 19 B) 31 C) 29 D) 30

Puzzle 10. What comes next in the sequence?

20	12	23	22	26	32	?
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 A) 36 B) 29 C) 42 D) 30

Answer Key

1. **D) 12**

Each row is a geometric sequence. Row 3 ratio: $\times 2$.

6. **B) 24**

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

2. **D) 42**

Two interleaved series – odd: $+8$, even: $+8$.

7. **D) 59**

Sequence: 30, 35, 38, 43, 46, 51, 54, ...

3. **D) 5099**

Sequence: 3, 17, 59, 185, 563, 1697, ...

8. **D) 82**

Sequence: 17, 28, 35, 46, 53, 64, 71, ...

4. **C) 16**

Each row is a geometric sequence. Row 3 ratio: $\times 2$.

9. **C) 29**

Two interleaved series – odd: $+3$, even: $+5$.

5. **B) 29**

Two interleaved series – odd: $+6$, even: $+7$.

10. **B) 29**

Two interleaved series – odd: $+3$, even: $+10$.