

Pattern Puzzles – Pack 28

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

| | | |
|---|---|----|
| 3 | 6 | 12 |
| 1 | 3 | 9 |
| 3 | 6 | ? |

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Puzzle 2. What comes next in the sequence?

| | | | | | | |
|---|----|----|----|----|----|---|
| 8 | 18 | 11 | 22 | 14 | 26 | ? |
|---|----|----|----|----|----|---|

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

| | | |
|---|----|----|
| 2 | 4 | 8 |
| 3 | 12 | 48 |
| 1 | 2 | ? |

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Puzzle 4. What comes next in the sequence?

| | | | | | | | |
|---|----|----|----|----|----|----|---|
| 8 | 15 | 24 | 31 | 40 | 47 | 56 | ? |
|---|----|----|----|----|----|----|---|

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Puzzle 5. What comes next in the sequence?

| | | | | | | |
|---|---|----|----|----|----|---|
| 4 | 8 | 14 | 22 | 32 | 44 | ? |
|---|---|----|----|----|----|---|

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

| | | |
|---|---|----|
| 3 | 6 | 12 |
| 4 | 8 | 16 |
| 3 | 6 | ? |

- A) 12
 B) 8
 C) 14
 D) 11

Puzzle 7. What comes next in the sequence?

| | | | | | | |
|---|----|----|----|----|----|---|
| 7 | 19 | 16 | 29 | 25 | 39 | ? |
|---|----|----|----|----|----|---|

- A) 33
 B) 35
 C) 49
 D) 34

Puzzle 8. What comes next in the sequence?

| | | | | | | |
|---|----|----|-----|-----|------|---|
| 5 | 17 | 53 | 161 | 485 | 1457 | ? |
|---|----|----|-----|-----|------|---|

- A) 4371
 B) 4373
 C) 4374
 D) 1459

Puzzle 9. What comes next in the sequence?

| | | | | | | | |
|----|----|----|----|----|----|----|---|
| 17 | 29 | 32 | 44 | 47 | 59 | 62 | ? |
|----|----|----|----|----|----|----|---|

- A) 77
 B) 74
 C) 73
 D) 65

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

| | | |
|---|---|----|
| 2 | 6 | 18 |
| 1 | 4 | 16 |
| 1 | 3 | ? |

- A) 6
 B) 16
 C) 9
 D) 14

Answer Key

1. **C) 12**
Each row is a geometric sequence. Row 3 ratio: $\times 2$.
2. **B) 17**
Two interleaved series – odd: $+3$, even: $+4$.
3. **C) 4**
Each row is a geometric sequence. Row 3 ratio: $\times 2$.
4. **B) 63**
Sequence: 8, 15, 24, 31, 40, 47, 56, ...
5. **B) 58**
Sequence: 4, 8, 14, 22, 32, 44, ...
6. **A) 12**
Each row is a geometric sequence. Row 3 ratio: $\times 2$.
7. **D) 34**
Two interleaved series – odd: $+9$, even: $+10$.
8. **B) 4373**
Sequence: 5, 17, 53, 161, 485, 1457, ...
9. **B) 74**
Sequence: 17, 29, 32, 44, 47, 59, 62, ...
10. **C) 9**
Each row is a geometric sequence. Row 3 ratio: $\times 3$.