

## Pattern Puzzles – Pack 20

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

13	17	26	30	39	43	52	?
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A) 61	B) 65	C) 55	D) 56
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**Puzzle 2.** What comes next in the sequence?

12	18	26	36	48	62	?
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A) 76	B) 78	C) 80	D) 92
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**Puzzle 3.** What comes next in the sequence?

17	9	26	18	35	27	?
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A) 45	B) 36	C) 41	D) 44
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**Puzzle 4.** What comes next in the sequence?

19	14	23	18	27	22	?
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A) 26	B) 27	C) 31	D) 32
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**Puzzle 5.** What comes next in the sequence?

8	22	42	68	100	138	?
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A) 182	B) 150	C) 188	D) 176
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**Puzzle 6.** What number replaces the question mark in the grid?

4	12	36
1	4	16
3	9	?

- A) 48     
  B) 12     
  C) 27     
  D) 29

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

3	6	12
4	12	36
1	3	?

- A) 9     
  B) 6     
  C) 14     
  D) 10

**Puzzle 8.** What comes next in the sequence?

2	12	42	132	402	1212	?
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- A) 3642     
  B) 1218     
  C) 3636     
  D) 3643

**Puzzle 9.** What comes next in the sequence?

11	9	15	14	19	19	?
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- A) 22     
  B) 19     
  C) 24     
  D) 23

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

4	12	36
1	4	16
3	6	?

- A) 12     
  B) 18     
  C) 8     
  D) 48

## Answer Key

1. **D) 56**

Sequence: 13, 17, 26, 30, 39, 43, 52, ...

6. **C) 27**

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

2. **B) 78**

Sequence: 12, 18, 26, 36, 48, 62, ...

7. **A) 9**

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

3. **D) 44**

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

8. **A) 3642**

Sequence: 2, 12, 42, 132, 402, 1212, ...

4. **C) 31**

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

9. **D) 23**

Two interleaved series – odd: +4, even: +5.

5. **A) 182**

Sequence: 8, 22, 42, 68, 100, 138, ...

10. **A) 12**

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