

Pattern Puzzles – Pack 29

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

2	6	18
4	16	64
1	3	?

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Puzzle 2. What comes next in the sequence?

5	18	44	96	200	408	?
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Puzzle 3. What comes next in the sequence?

9	23	43	69	101	139	?
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Puzzle 4. What comes next in the sequence?

15	19	30	34	45	49	60	?
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Puzzle 5. What number replaces the question mark in the grid?

1	3	9
4	16	64
3	6	?

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Puzzle 6. What comes next in the sequence?

27	32	39	44	51	56	63	?
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A) 75	B) 70	C) 67	D) 68
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Puzzle 7. What comes next in the sequence?

20	16	30	19	40	22	?
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A) 50	B) 43	C) 25	D) 51
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Puzzle 8. What comes next in the sequence?

6	15	27	42	60	81	?
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A) 102	B) 105	C) 108	D) 84
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Puzzle 9. What comes next in the sequence?

2	13	17	28	32	43	47	?
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A) 58	B) 57	C) 62	D) 51
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Puzzle 10. What number replaces the question mark in the grid?

2	6	18
3	9	27
2	4	?

A) 12	B) 8	C) 6	D) 18
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Answer Key

1. **A) 9**

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

6. **D) 68**

Sequence: 27, 32, 39, 44, 51, 56, 63, ...

2. **D) 824**

Sequence: 5, 18, 44, 96, 200, 408, ...

7. **A) 50**

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

3. **A) 183**

Sequence: 9, 23, 43, 69, 101, 139, ...

8. **B) 105**

Formula: $3 \times n(n+1)/2 + 3n$.

4. **D) 64**

Sequence: 15, 19, 30, 34, 45, 49, 60, ...

9. **A) 58**

Sequence: 2, 13, 17, 28, 32, 43, 47, ...

5. **C) 12**

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

10. **B) 8**

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