

Pattern Puzzles – Pack 43

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

3	6	12
2	6	18
2	4	?

- A) 6
 B) 5
 C) 8
 D) 18

Puzzle 2. What number replaces the question mark in the grid?

4	8	16
3	12	48
1	3	?

- A) 7
 B) 16
 C) 6
 D) 9

Puzzle 3. What comes next in the sequence?

10	13	20	23	30	33	40	?
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- A) 42
 B) 43
 C) 47
 D) 50

Puzzle 4. What comes next in the sequence?

5	10	17	26	37	50	?
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- A) 59
 B) 63
 C) 67
 D) 65

Puzzle 5. What comes next in the sequence?

5	18	57	174	525	1578	?
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- A) 4738
 B) 1581
 C) 4737
 D) 4734

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Puzzle 6. What comes next in the sequence?

4	16	52	160	484	1456	?
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| A) 4373 | B) 4368 | C) 4372 | D) 1460 |
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Puzzle 7. What comes next in the sequence?

11	24	45	74	111	156	?
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|--------|--------|--------|--------|
| A) 209 | B) 201 | C) 217 | D) 203 |
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Puzzle 8. What comes next in the sequence?

8	20	11	29	14	38	?
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| A) 47 | B) 17 | C) 23 | D) 18 |
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Puzzle 9. What comes next in the sequence?

3	10	13	13	23	16	?
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| A) 26 | B) 19 | C) 34 | D) 33 |
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Puzzle 10. What comes next in the sequence?

13	27	49	79	117	163	?
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| A) 225 | B) 206 | C) 209 | D) 217 |
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Answer Key

1. **C) 8**
Each row is a geometric sequence. Row 3 ratio: $\times 2$.
2. **D) 9**
Each row is a geometric sequence. Row 3 ratio: $\times 3$.
3. **B) 43**
Sequence: 10, 13, 20, 23, 30, 33, 40, ...
4. **D) 65**
Sequence: 5, 10, 17, 26, 37, 50, ...
5. **C) 4737**
Sequence: 5, 18, 57, 174, 525, 1578, ...
6. **C) 4372**
Sequence: 4, 16, 52, 160, 484, 1456, ...
7. **A) 209**
Sequence: 11, 24, 45, 74, 111, 156, ...
8. **B) 17**
Two interleaved series – odd: $+3$, even: $+9$.
9. **D) 33**
Two interleaved series – odd: $+10$, even: $+3$.
10. **D) 217**
Sequence: 13, 27, 49, 79, 117, 163, ...