

## Pattern Puzzles – Pack 47

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

2	4	8
1	2	4
1	3	?

- 

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

3	6	12
1	3	9
1	3	?

- 

**Puzzle 3.** What comes next in the sequence?

2	19	5	27	8	35	?
---	----	---	----	---	----	---

- 

**Puzzle 4.** What comes next in the sequence?

6	13	22	33	46	61	?
---	----	----	----	----	----	---

- 

**Puzzle 5.** What number replaces the question mark in the grid?

1	3	9
4	16	64
1	3	?

-

### Pattern Puzzles – Pack 47

**Puzzle 6.** What comes next in the sequence?

3	11	11	21	19	31	?
---	----	----	----	----	----	---

- |       |       |       |       |
|-------|-------|-------|-------|
| A) 29 | B) 27 | C) 28 | D) 41 |
|-------|-------|-------|-------|

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

2	6	18
4	16	64
3	9	?

- |       |       |       |       |
|-------|-------|-------|-------|
| A) 12 | B) 27 | C) 31 | D) 48 |
|-------|-------|-------|-------|

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

4	20	7	30	10	40	?
---	----	---	----	----	----	---

- |       |       |       |       |
|-------|-------|-------|-------|
| A) 13 | B) 14 | C) 20 | D) 50 |
|-------|-------|-------|-------|

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

8	14	25	31	42	48	59	?
---	----	----	----	----	----	----	---

- |       |       |       |       |
|-------|-------|-------|-------|
| A) 70 | B) 65 | C) 76 | D) 64 |
|-------|-------|-------|-------|

**Puzzle 10.** What comes next in the sequence?

5	11	23	47	95	191	?
---	----	----	----	----	-----	---

- |        |        |        |        |
|--------|--------|--------|--------|
| A) 192 | B) 382 | C) 384 | D) 383 |
|--------|--------|--------|--------|

## Answer Key

1. **A) 9**  
Each row is a geometric sequence. Row 3 ratio:  $\times 3$ .
2. **A) 9**  
Each row is a geometric sequence. Row 3 ratio:  $\times 3$ .
3. **C) 11**  
Two interleaved series – odd:  $+3$ , even:  $+8$ .
4. **A) 78**  
Sequence: 6, 13, 22, 33, 46, 61, ...
5. **B) 9**  
Each row is a geometric sequence. Row 3 ratio:  $\times 3$ .
6. **B) 27**  
Two interleaved series – odd:  $+8$ , even:  $+10$ .
7. **B) 27**  
Each row is a geometric sequence. Row 3 ratio:  $\times 3$ .
8. **A) 13**  
Two interleaved series – odd:  $+3$ , even:  $+10$ .
9. **B) 65**  
Sequence: 8, 14, 25, 31, 42, 48, 59, ...
10. **D) 383**  
Sequence: 5, 11, 23, 47, 95, 191, ...