

Pattern Puzzles – Pack 41

Puzzle 1. What comes next in the sequence?

1	14	75	244	605	1266	2359	?
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- A) 3452
 B) 4016
 C) 4064
 D) 4040

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

2	5	9
3	3	14
3	8	?

- A) 9
 B) 13
 C) 17
 D) 12

Puzzle 3. What comes next in the sequence?

2	26	122	362	842	1682	3026	?
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- A) 5066
 B) 4370
 C) 5018
 D) 5042

Puzzle 4. What number replaces the question mark in the grid?

6	8	6
6	2	17
4	8	?

- A) 18
 B) 13
 C) 17
 D) 23

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

6	5	4
6	6	5
8	5	?

- A) 8
 B) 5
 C) 4
 D) 6

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Puzzle 6. What comes next in the sequence?

1	25	121	361	841	1681	3025	?
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- A) 5065
 B) 5041
 C) 5017
 D) 4369

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

6	6	6
3	7	10
3	4	?

- A) 13
 B) 17
 C) 14
 D) 15

Puzzle 8. What number replaces the question mark in the grid?

2	4	12
6	5	9
4	8	?

- A) 12
 B) 10
 C) 8
 D) 9

Puzzle 9. What number replaces the question mark in the grid?

2	3	16
4	8	12
5	4	?

- A) 17
 B) 15
 C) 21
 D) 18

Puzzle 10. What comes next in the sequence?

3	29	127	369	851	1693	3039	?
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- A) 5033
 B) 4385
 C) 5081
 D) 5057

Answer Key

1. **D) 4040**

4th diffs: 24 (constant – quartic sequence).

6. **B) 5041**

4th diffs: 24 (constant – quartic sequence).

2. **B) 13**

Row sums form arithmetic sequence: 16, 20, 24.

7. **D) 15**

Row sums form arithmetic sequence: 18, 20, 22.

3. **D) 5042**

4th diffs: 24 (constant – quartic sequence).

8. **B) 10**

Row sums form arithmetic sequence: 18, 20, 22.

4. **A) 18**

Row sums form arithmetic sequence: 20, 25, 30.

9. **D) 18**

Row sums form arithmetic sequence: 21, 24, 27.

5. **D) 6**

Row sums form arithmetic sequence: 15, 17, 19.

10. **D) 5057**

4th diffs: 24 (constant – quartic sequence).