

Pattern Puzzles – Pack 15

Puzzle 1. What comes next in the sequence?

-1	16	93	296	715	1464	2681	?
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- A) 4528
 B) 4552
 C) 3898
 D) 4504

Puzzle 2. What comes next in the sequence?

6	26	100	288	674	1366	2496	?
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- A) 4220
 B) 4196
 C) 3626
 D) 4244

Puzzle 3. What comes next in the sequence?

6	22	88	264	634	1306	2412	?
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- A) 4084
 B) 4132
 C) 4108
 D) 3518

Puzzle 4. What comes next in the sequence?

3	18	83	258	627	1298	2403	?
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- A) 4074
 B) 4098
 C) 4122
 D) 3508

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

6	6	5
5	6	8
8	4	?

- A) 9
 B) 11
 C) 8
 D) 7

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Puzzle 6. What comes next in the sequence?

2	22	96	284	670	1362	2492	?
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- A) 3622 B) 4216 C) 4240 D) 4192

Puzzle 7. What comes next in the sequence?

5	33	135	383	873	1725	3083	?
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- A) 4441 B) 5139 C) 5091 D) 5115

Puzzle 8. What comes next in the sequence?

2	19	88	269	646	1327	2444	?
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- A) 4129 B) 4177 C) 3561 D) 4153

Puzzle 9. What comes next in the sequence?

7	41	153	415	923	1797	3181	?
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- A) 5219 B) 4565 C) 5243 D) 5267

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

4	8	5
7	7	6
7	4	?

- A) 9 B) 15 C) 11 D) 12

Answer Key

1. **A) 4528**

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

6. **B) 4216**

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

2. **A) 4220**

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

7. **D) 5115**

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

3. **C) 4108**

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

8. **D) 4153**

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

4. **B) 4098**

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

9. **C) 5243**

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

5. **A) 9**

Row sums form arithmetic sequence: 17, 19, 21.

10. **D) 12**

Row sums form arithmetic sequence: 17, 20, 23.