

Numerical Patterns and Ordered Pairs

Grade 5 • MATH • Generating two numerical patterns and graphing their ordered pairs • Standards: 5.OA.B.3

For each problem, generate the first four terms of both patterns using the given rules. Then write the ordered pairs and be ready to plot them on a coordinate grid.

- 1.** Pattern A: Start at 0, add 1 each time. Pattern B: Start at 0, add 2 each time. Write the first four ordered pairs (A, B).
- 2.** Pattern A: Start at 1, add 1 each time. Pattern B: Start at 2, add 2 each time. Write the first four ordered pairs (A, B).
- 3.** Pattern A: Start at 0, add 2 each time. Pattern B: Start at 0, add 3 each time. Write the first four ordered pairs (A, B).
- 4.** Pattern A: Start at 2, add 3 each time. Pattern B: Start at 1, add 1 each time. Write the first four ordered pairs (A, B).
- 5.** Pattern A: Start at 1, add 2 each time. Pattern B: Start at 5, add 5 each time. Write the first four ordered pairs (A, B).
- 6.** Pattern A: Start at 0, add 4 each time. Pattern B: Start at 3, add 2 each time. Write the first four ordered pairs (A, B).
- 7.** Pattern A: Start at 5, add 5 each time. Pattern B: Start at 10, add 3 each time. Write the first four ordered pairs (A, B).
- 8.** Pattern A: Start at 3, add 4 each time. Pattern B: Start at 20, subtract 2 each time. Write the first four ordered pairs (A, B).
- 9.** Pattern A: Start at 8, add 6 each time. Pattern B: Start at 2, add 7 each time. Write the first four ordered pairs (A, B).
- 10.** Pattern A: Start at 12, subtract 3 each time. Pattern B: Start at 4, add 8 each time. Write the first four ordered pairs (A, B).

Answer Key — Numerical Patterns and Ordered Pairs

For the teacher / parent. Do not distribute with the worksheet.

1. (0, 0), (1, 2), (2, 4), (3, 6) (Pattern A: 0, 1, 2, 3. Pattern B: 0, 2, 4, 6. Pair them in order.)
2. (1, 2), (2, 4), (3, 6), (4, 8) (Pattern A: 1, 2, 3, 4. Pattern B: 2, 4, 6, 8. Pair them in order.)
3. (0, 0), (2, 3), (4, 6), (6, 9) (Pattern A: 0, 2, 4, 6. Pattern B: 0, 3, 6, 9. Pair them in order.)
4. (2, 1), (5, 2), (8, 3), (11, 4) (Pattern A: 2, 5, 8, 11. Pattern B: 1, 2, 3, 4. Pair them in order.)
5. (1, 5), (3, 10), (5, 15), (7, 20) (Pattern A: 1, 3, 5, 7. Pattern B: 5, 10, 15, 20. Pair them in order.)
6. (0, 3), (4, 5), (8, 7), (12, 9) (Pattern A: 0, 4, 8, 12. Pattern B: 3, 5, 7, 9. Pair them in order.)
7. (5, 10), (10, 13), (15, 16), (20, 19) (Pattern A: 5, 10, 15, 20. Pattern B: 10, 13, 16, 19. Pair them in order.)
8. (3, 20), (7, 18), (11, 16), (15, 14) (Pattern A: 3, 7, 11, 15. Pattern B: 20, 18, 16, 14. Pair them in order.)
9. (8, 2), (14, 9), (20, 16), (26, 23) (Pattern A: 8, 14, 20, 26. Pattern B: 2, 9, 16, 23. Pair them in order.)
10. (12, 4), (9, 12), (6, 20), (3, 28) (Pattern A: 12, 9, 6, 3. Pattern B: 4, 12, 20, 28. Pair them in order.)