Name: _____ Date: _____

1. Rule: add 4, starting at 2. The sequence is 2, 6, 10, 14, ___

2. What is the next term? 6, 13, 20, 27, ...

33 | 34 | 41 | 35

3. What is the rule for this sequence? 0, 7, 14, 21, ...

add 7 | multiply by 7 | add 8 | add 6

4. Pattern A: add 3 from 0. Pattern B: add 6 from 0. When A = 12, what is B?

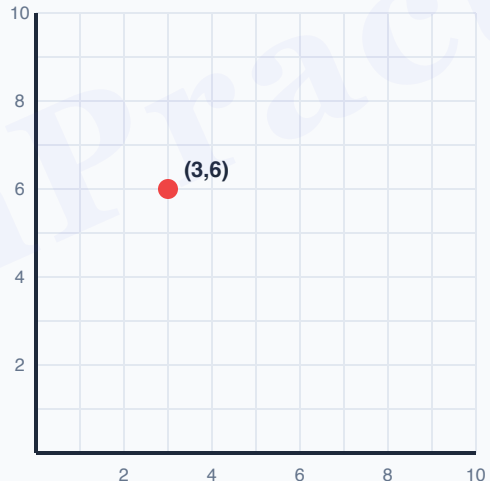
5. Pattern A (add 1 from 0) and Pattern B (add 2 from 0). Using Pattern A for the x-coordinate and Pattern B for the y-coordinate, what ordered pair does term #4 form?

(5, 8) | (4, 10) | (4, 8) | (8, 4)

6. Rule: multiply by 3, starting at 2. Sequence: 2, 6, 18, ___

7. Fill the missing term: 4, 10, ___, 22

8. Pattern A adds 1, Pattern B adds 2 (both from 0). Plot A on the x-axis and B on the y-axis. At term #3, what are the point's coordinates?



(4, 6) (3, 8) (3, 6) (6, 3)

9. Rule: add 2, starting at 1. The sequence is 1, 3, 5, 7, ___

10. What is the next term? 2, 7, 12, 17, ...

27 | 23 | 22 | 21

11. What is the rule for this sequence? 3, 8, 13, 18, ...

multiply by 5 | add 4 | add 5 | add 6

12. Pattern A: add 5 from 0. Pattern B: add 10 from 0. When A = 10, what is B?

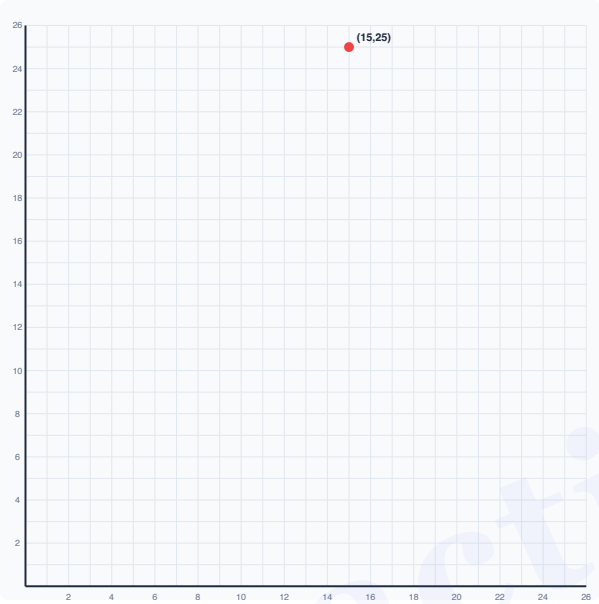
13. Pattern A (add 1 from 0) and Pattern B (add 3 from 0). Using Pattern A for the x-coordinate and Pattern B for the y-coordinate, what ordered pair does term #1 form?

(1, 3) | (1, 6) | (3, 1) | (2, 3)

14. Rule: multiply by 2, starting at 3. Sequence: 3, 6, 12, ___

15. Fill the missing term: 2, 8, ___, 20

16. Pattern A adds 3, Pattern B adds 5 (both from 0). Plot A on the x-axis and B on the y-axis. At term #5, what are the point's coordinates?



(18, 25) (25, 15) (15, 25) (15, 30)

17. Rule: add 2, starting at 3. The sequence is 3, 5, 7, 9, ___

18. What is the next term? 1, 3, 5, 7, ...

11 8 9 10

Answer Key

1. **18** Add 4 to 14: 14 + 4 = 18.

2. **34** Each term adds 7, so next is 27 + 7 = 34.

3. **add 7** Each term increases by 7, so the rule is "add 7".

4. **24** B grows twice as fast, so B = 2 × A: 2 × 12 = 24.

5. **(4, 8)** Term #4: A = 4 (x), B = 8 (y), so (4, 8).

6. **54** 18 × 3 = 54.

7. **16** The rule is add 6, so the missing term is 16.

8. **(3, 6)** A = 3 (x-axis), B = 6 (y-axis), so (3, 6).

9. **9** Add 2 to 7: 7 + 2 = 9.

10. **22** Each term adds 5, so next is 17 + 5 = 22.

11. **add 5** Each term increases by 5, so the rule is "add 5".

12. **20** B grows twice as fast, so B = 2 × A: 2 × 10 = 20.

13. **(1, 3)** Term #1: A = 1 (x), B = 3 (y), so (1, 3).

14. **24** 12 × 2 = 24.

15. **14** The rule is add 6, so the missing term is 14.

16. **(15, 25)** A = 15 (x-axis), B = 25 (y-axis), so (15, 25).

17. **11** Add 2 to 9: 9 + 2 = 11.

18. **9** Each term adds 2, so next is 7 + 2 = 9.