



Name: _____

Date: _____

1. Rule: add 3, starting at 4. The sequence is 4, 7, 10, 13, ____

2. What is the next term? 5, 12, 19, 26, ...

34

33

32

40

3. What is the rule for this sequence? 1, 7, 13, 19, ...

add 5

multiply by 6

add 6

add 7

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

5. Pattern A (add 2 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 #2 form?

(4, 9)

(6, 4)

(6, 6)

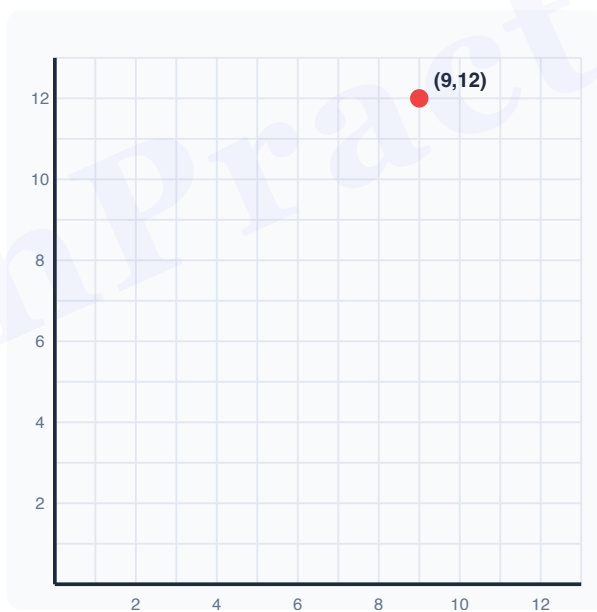
(4, 6)



6. Rule: multiply by 2, starting at 2. Sequence: 2, 4, 8, ____

7. Fill the missing term: 6, 8, ____, 12

8. Pattern A adds 3, Pattern B adds 4 (both from 0). Plot A on the x-axis and B on the y-axis. At term #3, what are the point's coordinates?



(9, 16)

(9, 12)

(12, 9)

(12, 12)

9. Rule: add 5, starting at 2. The sequence is 2, 7, 12, 17, ____



10. What is the next term? 1, 7, 13, 19, ...

24

25

26

31

11. What is the rule for this sequence? 1, 5, 9, 13, ...

add 4

multiply by 4

add 3

add 5

12. Pattern A: add 2 from 0. Pattern B: add 4 from 0. When $A = 2$, what is B?

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

(2, 5)

(4, 5)

(5, 2)

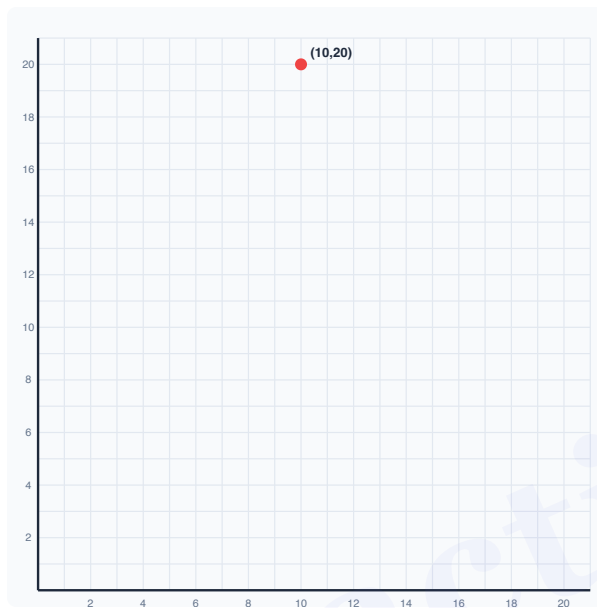
(2, 10)

14. Rule: multiply by 2, starting at 1. Sequence: 1, 2, 4, ____

15. Fill the missing term: 3, 6, ____, 12



16. Pattern A adds 2, Pattern B adds 4 (both from 0). Plot A on the x-axis and B on the y-axis. At term #5, what are the point's coordinates?



(10, 20)

(12, 20)

(10, 24)

(20, 10)

17. Rule: add 3, starting at 0. The sequence is 0, 3, 6, 9, ____

18. What is the next term? 6, 8, 10, 12, ...

15

16

13

14



Answer Key

1. **16** Add 3 to 13: $13 + 3 = 16$.
2. **33** Each term adds 7, so next is $26 + 7 = 33$.
3. **add 6** Each term increases by 6, so the rule is "add 6".
4. **6** B grows twice as fast, so $B = 2 \times A$: $2 \times 3 = 6$.
5. **(4, 6)** Term #2: $A = 4$ (x), $B = 6$ (y), so (4, 6).
6. **16** $8 \times 2 = 16$.
7. **10** The rule is add 2, so the missing term is 10.
8. **(9, 12)** $A = 9$ (x-axis), $B = 12$ (y-axis), so (9, 12).
9. **22** Add 5 to 17: $17 + 5 = 22$.
10. **25** Each term adds 6, so next is $19 + 6 = 25$.
11. **add 4** Each term increases by 4, so the rule is "add 4".
12. **4** B grows twice as fast, so $B = 2 \times A$: $2 \times 2 = 4$.
13. **(2, 5)** Term #1: $A = 2$ (x), $B = 5$ (y), so (2, 5).
14. **8** $4 \times 2 = 8$.
15. **9** The rule is add 3, so the missing term is 9.
16. **(10, 20)** $A = 10$ (x-axis), $B = 20$ (y-axis), so (10, 20).
17. **12** Add 3 to 9: $9 + 3 = 12$.
18. **14** Each term adds 2, so next is $12 + 2 = 14$.