

Finding Patterns and Rules

Name: _____

Date: _____

Instructions: Look carefully at each number pattern. Write the next two numbers in the sequence, then write a rule to describe the pattern.

Part A: Continue the Pattern

- 1. 3, 6, 9, 12, 15, _____, _____
- 2. 5, 10, 15, 20, 25, _____, _____
- 3. 2, 4, 6, 8, 10, _____, _____
- 4. 1, 4, 7, 10, 13, _____, _____
- 5. 50, 45, 40, 35, 30, _____, _____

Part B: Write a Rule

Describe each pattern using words or symbols. (Example: add 5 each time, or $n + 5$)

- 1. Rule: _____
- 2. Rule: _____
- 3. Rule: _____
- 4. Rule: _____
- 5. Rule: _____

Part C: Complete the Tables

Find the pattern and fill in the missing numbers.

Table 1:

Input	Output
1	4
2	8
3	12

Table 2:

Input	Output
1	6
2	7
3	8

4	_____
5	_____

Rule: _____

4	_____
5	_____

Rule: _____

Challenge

Create your own number pattern and write the rule:

My pattern: _____, _____, _____, _____, _____, _____, _____

My rule: _____