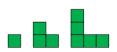
Activity 3 Assessment Creating Patterns

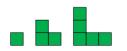
Generalizing and Representing Increasing and Decreasing Patterns

Recognizes that a pattern increases or decreases



"The terms are getting bigger."

Identifies how a pattern changes (describes rule)



"It grows by 2 tiles each time."

Represents patterns symbolically and writes rules using addition or subtraction

1. 3. 5. ... "Start at 1 and add 2 each time." 17. 14. 11. ... "Start at 17 and take away 3

each time."

Extends patterns using repeated addition and subtraction

> 357 - 9 = 348357 - 12 = 345

357 - 15 = 342357 - 18 = 339

"I added 3 to the number taken away and subtracted 3 from the difference."

Observations/Documentation

Finds missing terms or errors in patterns

3, 8, 13, 18, 22, 28, "Start at 3 and add 5 each time. 18 + 5 = 23, so 22 should be 23."

32. 28. *. 20. 16. 12. 8. "Start at 32 and subtract 4 each time. 28 - 4 = *, so * is 24."

Creates patterns and explains pattern rules

"85, 75, 65, 55, I started with my house number and took away 10 each time."

Uses patterns to solve problems

"If I save 2 quarters a day, when will I have 10 quarters? 2, 4, 6, 8, 10 I will have 10 quarters after 5 days."

Identifies and extends patterns involving multiplication

Input	1	2	3	4	5
Output	2	4	6	8	10

"Each input number is multiplied by 2."

Observations/Documentation