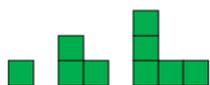


Activity 6 Assessment

Solving Problems

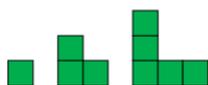
Generalizing and Representing Increasing and Decreasing Patterns

Recognizes that a pattern increases or decreases



"The terms are getting bigger."

Identifies how a pattern changes (describes rule)



"To get from the first term to the second term, and from the second term to the third term, we add 2 tiles. The pattern 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

1, 3, 5, 7, 9, 11, ...
"I added 2 over and over."
17, 14, 11, 8, 5, 2
"I subtracted 3 over and over."

Observations/Documentation

Activity 6 Assessment

Solving Problems

Generalizing and Representing Increasing and Decreasing Patterns (cont'd)

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."

Creates number patterns and identifies finite and infinite whole-number sequences

"85, 75, 65, 55,
 "I skip-counted back by 10s.
 All the numbers are odd.
 It is a finite sequence because I will run out of numbers."

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