Activity 4 Assessment
Creating Patterns

Generalizing and Representing Increasing and Decreasing Patterns

Recognizes that a pattern increases or decreases	Identifies how a pattern changes (describes rule)	Represents patterns symbolically and writes rules using addition or subtraction	Extends patterns using repeated addition and subtraction
"The terms are getting bigger."	"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."	1, 3, 5, … "Start at 1 and add 2 each time." 17, 14, 11, … "Start at 17 and take away 3 each time."	1, 3, 5, 7, 9, 11, … "I added 2 over and over." 17, 14, 11, 8, 5, 2 "I subtracted 3 over and over."
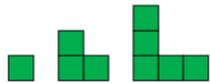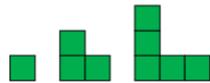
Observations/Documentation

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Activity 4 Assessment
Creating Patterns

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

Finds missing terms or errors in patterns	Creates number patterns and identifies finite and infinite whole-number sequences	Uses patterns to solve problems	Identifies and extends patterns involving multiplication
3, 8, 13, 18, 22, 28, …. "Start at 3 and add 5 each time. 18 + 5 = 23, so 22 should be 23."	"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."	"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."	(see table below) "Each input number is multiplied by 2."

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

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