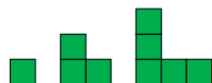


Activity 2 Assessment

Representing 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

$$\begin{aligned} 357 - 9 &= 348 \\ 357 - 12 &= 345 \\ 357 - 15 &= 342 \\ 357 - 18 &= 339 \end{aligned}$$

“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.
 $28 - 4 = \star$, 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