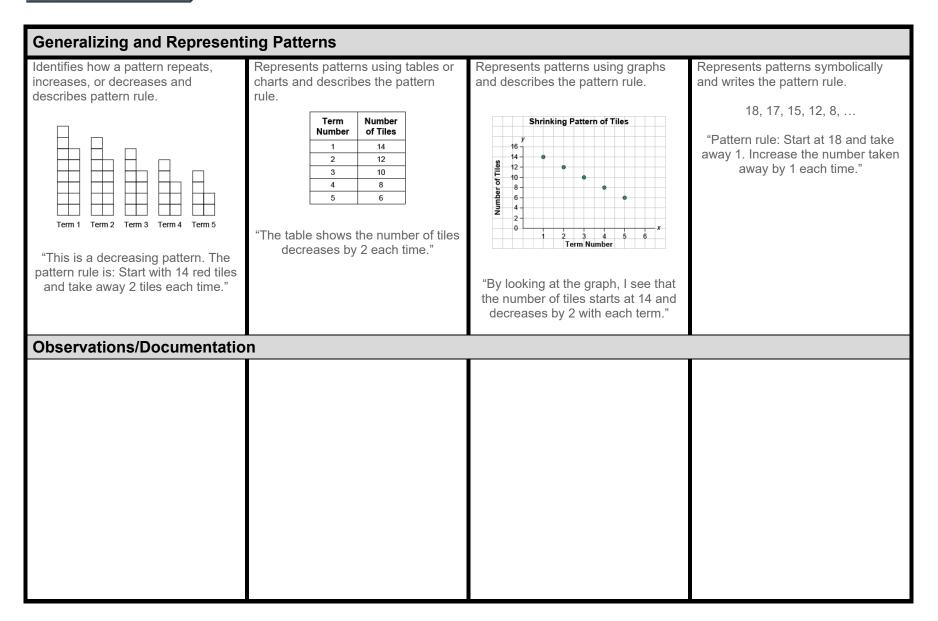
Activity 4 Assessment

Patterning Consolidation



Activity 4 Assessment Patterning Consolidation

Generalizing and Representing Patterns (con't)

Extends patterns using repeated addition/subtraction, multiplication,	Creates patterns and explains the pattern rule.				Use	es patter	ns to solve	e problems.	Fluently identifies, creates, and extends various patterns to solve			
and division.						Term Picture Number Number of Counters					s lo solve	
		Term Number	Picture	Number of Counters		1	0	1				
Term 1 Term 2 Term 3 Term 4 Term 5		1	0	1		2	88	4	Number of Bracelets	Number of Plain Beads	Number of Patterned Beads	
iem i iem 2 iem 3 iem 4 iem 5		2	88	4			888		1	4	12	
18, 17, 15, 12, 8,		3		9		3	000	9	2	8	24 36	
						4	8888	16				
"The next term would have $8 - 5 = 3$ squares. It would be the last term		4		16		4	0000	16	8	32	96	
because I cannot take 6 away from 3. Decreasing patterns end but repeating and increasing patterns don't." Observations/Documentatio	the	"I created an increasing pattern with the pattern rule: Start at 1. Multiply the term number by itself."					How many counters are in Term 8? "64 counters; I used the rule and multiplied the term number by itself: 8 × 8 = 64."			 Naomi beaded bracelets using 4 plain and 12 patterned beads. "Plain beads: Multiply the number of bracelets by 4: 4n Patterned beads: Multiply the number of bracelets by 8: 8b." 		
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Activity 4 Assessment

Patterning Consolidation

Determines the pattern rule.	Uses pattern	rule to determine	Extends patterns using	Elexibly describe	Flexibly describes and solves		
100, 97, 91, 86, 70, 55, 37, 16	missing value	es.	mathematical expressions.	problems using mathematical expressions and properties.			
"The pattern rule is: Start at 100 and subtract 3. Increase the number subtracted by 3 each time."	missing Week 1 2 3 4 5 6 "The pattern add 10. The addeo	Id you determine the value for week 5?Practice Time (min)25 $35 = 25 + 10$ $50 = 35 + 15$ $70 = 50 + 20$ 125 = 95 + 30rule is: Start at 25 and en increase the amount d by 5 each time. 5 is $70 + 25 = 95$."	3, 8, 13, 18, 23, 28 "I can use the expression 5n - 2 to extend the pattern, where <i>n</i> represents the term number. The seventh term would be $5 \times 7 - 2 = 33$."	9 8 7 6 5 4 "To determine multiply the inp subtract 1. expression 2 <i>n</i> -1 number, to find	Output1917151311 111 1111 1111 1111 1111 1111 1111 1111 1111 11111 111111 $111111111111111111111111111111111111$		
Observations/Documentation							