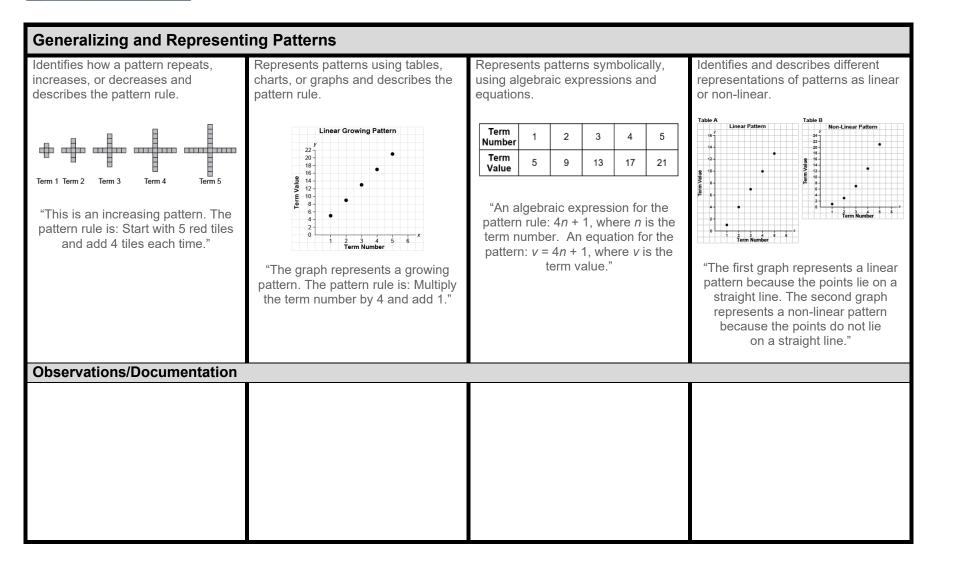
Activity 4 Assessment Patterning Consolidation



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Generalizing and Representing Patterns												
Extends patterns using repeated addition and subtraction, multiplication, and division. Term 1 Term 2 Term 3 Term 4 Term 1 2 3 4 5 6 7 Term 4 5 2 "This is a linear decreasing pattern because the same number (3) is subtracted each time. To extend the pattern, I subtract 3 from the previous term: $11 - 3 = 8, 8 - 3 = 5, 5 - 3 = 2$. The term values can be represented with the expression 23 - 3n, where <i>n</i> is the term number."	Creates and translates linear patterns using various representations. Kiera has \$15 to spend on items that cost \$3 each. $\frac{Number}{6 \text{ Items}} \frac{Money}{Left ($)} \\ \frac{1}{2} \\ \frac{2}{3} \\ \frac{6}{6} \\ \frac{4}{3} \\ \frac{5}{5} \\ 0 \\ \end{array}$	Uses patterns to represent and solve problems. How far had the bus travelled after 3 h 30 min? $\frac{\overline{\text{Time (h)}} \underline{\text{Distance Travelled (km)}}{1 & 70 & 1} \\ 2 & 140 & 3 & 210 & 1 \\ 4 & 280 & 1 \\ 1 & 10 & 1 \\ 1 & 10 & 1 \\ 1 & 10 & 1 \\ 2 & 10 & 1 \\ 1 $	Fluently identifies, creates, and extends patterns to solve real-life problems. How much would a 6-km ride cost? $\frac{1}{2} \frac{1}{3.50}$ $\frac{2}{4.00}$ $\frac{3}{4.50}$ $\frac{4}{5.00}$ "I added 2 × \$0.50 = \$1.00 to the cost of a 4-km ride which is \$5.00. So, a 6-km ride costs: \$5.00 + \$1.00 = \$6.00. Or, I could multiply the number of kilometres by \$0.50, then add \$3: 6 × \$0.50 + \$3 = \$3 + \$3, or \$6."									
Observations/Documentation	•											

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Determines the pattern rule.	Uses pattern rule to determine missing values.							Extends patterns using mathematical expressions.	Flexibly describes and solves problems using mathematical		
5, 10, 15, 20, 25, 30, 35, 40	-							·	expressions and properties.		
"The term numbers are consecutive multiples of 5."	Term Number Term Value	5 16	10 31	15	61	25 76	30	Graph B 24 20 9 16	Zac earned \$504 to buy games for a children's hospital. Each game costs \$64. How many games can Zac buy?		
	"The pattern rule for the term numbers is: Skip count by 5s. So, the missing term is 20. The pattern rule for the term values is: Multiply the term number by 3, then add 1. The missing term values are: $15 \times 3 + 1 = 46$ and $30 \times 3 + 1 = 91$."					by 5	is.	"I can use the expression $3n + 2$ to extend the pattern, where n	Number of Games Bought	Total Money Spent (\$)	Money Left Over (\$)
						value by 3,	s is: then		1 2 3	64 128 192	440 376 312
									4 5	256 320	248 184
									6 7	384 448	120 56
								represents the term number. The seventh and eighth terms would be 3 × 7 + 2 = 23 and 3 × 8 + 2 = 26."	 "Expression for money spent (\$) is 64v, where v is the number of games bought. The money left over in dollars, is: 504 – (the money spent) = 504 – 64v. Zac can buy 7 games and have \$56 left over." 		
Observations/Documentation											