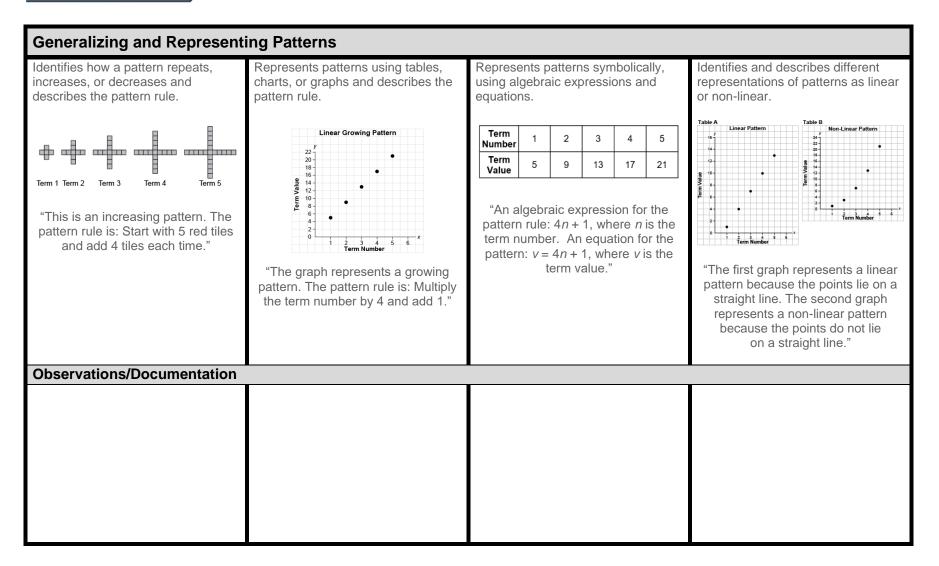
## Activity 1 Assessment

Investigating Patterns and Relationships in Tables and Graphs



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Investigating Patterns and Relationships in Tables and Graphs

Extends patterns using repeated addition and subtraction, multiplication, and division.	Creates and translates linear patterns using various representations. Kiera has \$15 to spend on items that cost \$3 each.	Uses patterns to represent and solve problems. How far had the bus travelled after 3 h 30 min?	Fluently identifies, creates, and extends patterns to solve real-life problems. How much would a 6-km ride cost?
Term 1Term 2Term 3Term 4 $\overline{\text{Term}}$ 1234567 $\overline{\text{Term}}$ 20171411852"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 n is the term number."	Number her1234567n her20171411852s a linear decreasing pattern use the same number (3) is cted each time. To extend the ttern, I subtract 3 from the us term: $11 - 3 = 8, 8 - 3 = 5$ , = 2. The term values can be esented with the expression $- 3n$ , where $n$ is the termNumber fittems $n$ Money Left (\$) $1$ Purchases at the Craft Store $0$ Number of Items Bought11229364350The table shows that for each additional item bought, the money left decreases by \$3. The graph shows the same linear pattern, where the money left decreases by	170214032104280"The bus travels 70 km in 1 h (60 min). So, in 30 min, the bus travels 70 km $\div$ 2 = 35 km. In 3 h, the bus travels 210 km. So, in 3 h 30 min, the bus travels 210 km + 35 km = 245 km."	Distance Driven (km)Money Earned (\$)1 $3.50$ 2 $4.00$ 3 $4.50$ 4 $5.00$ "I added 2 × \$0.50 = \$1.00 to thecost 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 ofkilometres by \$0.50, then add \$3: $6 \times $0.50 + $3 = $3 + $3, or $6."$
Observations/Documentation			