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| **Writing Algebraic Pattern Rules** |
| Writes a pattern rule given the relationship between the term number and term value“If I know that the term value is 4 times the term number, plus 1, I can write the pattern rule 4*x* + 1 to describe the relationship.” | Writes an expression to represent a linear pattern”An expression that describes this pattern is 2*n* + 1 where *n* is the term number.”  | Uses a pattern rule to determine values of terms“When *n* = 50, the expression 2*n* + 1 is equal to 2(50) + 1 = 100 + 1 = 101There would be 101 tiles in term 50. It is helpful to calculate this rather than trying to extend the pattern this far.” | Creates a pattern and writes an algebraic pattern rule to describe it“My pattern is 100, 95, 90, 85,...The numbers start at 100 and get 5 smaller with every term. I can describe any term value as 100 minus 5 times the term number. An expression for this is 100 – 5*n*.”  |
| **Observations/Documentation** |
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