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| **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  1, 3, 5, 7, 9, 11, …  “I added 2 over and over.”  17, 14, 11, 8, 5, 2  “I subtracted 3 over and over.” |
| **Observations/Documentation** | | | |
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| 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.” | 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    “Each input number is  multiplied by 2.” |
| **Observations/Documentation** | | | |
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