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| **Extending Patterns to Solve Problems** |
| Determines the pattern rule. 100, 97, 91, 86, 70, 55, 37, 16“The pattern rule is: Start at 100 and subtract 3. Increase the number subtracted by 3 each time.” | Uses pattern rule to determine missing values.How would you determine the missing value for week 5?“The pattern rule is: Start at 25 and add 10. Then increase the amount added by 5 each time. Week 5 is 70 + 25 = 95.” | Extends patterns using mathematical expressions.3, 8, 13, 18, 23, 28“I can use the expression5*n* – 2 to extend the pattern, where *n* represents the term number. The seventh term would be 5 × 7 – 2 = 33.” | Flexibly describes and solves problems using mathematical expressions and properties. “To determine the output number, multiply the input number by 2 and subtract 1. I would use the expression 2*n* – 1, where *n* is the term number, to find the missing values: 2 × 5 – 1 = 9, 2 × 4 – 1 = 7.” |
| **Observations/Documentation** |
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