## Activity 3 Assessment

Using Pattern Rules to Solve Problems

| Extending Patterns to Solve Problems |  |  |  |
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| Determines the pattern rule. $100,97,91,86,70,55,37,16$ <br> "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. <br> How would you determine the missing value for week 5 ? <br> "The pattern rule is: Start at 25 and add 10. Then increase the amount added by 5 each time. <br> Week 5 is $70+25=95$." | Extends patterns using mathematical expressions. $3,8,13,18,23,28$ <br> "I can use the expression $5 n-2$ to extend the pattern, where $n$ represents the term number. The seventh term would be $5 \times 7-2=33 . "$ | Flexibly describes and solves problems using mathematical expressions and properties. <br> "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: $2 \times 5-1=9,2 \times 4-1=7 . "$ |
| Observations/Documentation |  |  |  |
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