## Activity 5 Assessment

## Using Variables

| Using Variables to Represent a Problem as an Equation |  |  |  |
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| Interprets word problems/pictures and identifies the unknown part. <br> Our class needs to set up rows of 6 chairs for a presentation. There are 30 chairs altogether. How many rows do we need? <br> "The unknown is the number of rows of 6 chairs needed to make an array of 30 chairs." | Translates word problems into equations using variables, operations, and numbers. <br> "The unknown, $n$, is the number of rows. I know there are 6 chairs in each row and a total of 30 chairs. So, $6 n=30$." | Interprets and uses visual representations to describe equivalent relationships using more than one equation (including formulas). <br> "I know the area of a rectangle is base multiplied by height, which is 30. If the base is 6 , then the height must be $n$. I could write the equation $30=6 n \text { or } 30 \div 6=n . "$ | Flexibly writes algebraic equations using a variety of strategies. $\begin{aligned} & 6 n=30 \\ & 30 \div n=6 \end{aligned}$ <br> "I can use the inverse operation to rewrite the equation." |
| Observations/Documentation |  |  |  |
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