## Activity 9 Assessment

 Solving Equations with Multiple Terms| Solving Equations with Multiple Terms |  |  |  |
| :---: | :---: | :---: | :---: |
| Interprets the meaning of single variable equations that involve more than one operation <br> "The equation $2 x+3=21$ means that when you double a number and add 3 to the result, you get 21 ." | Uses relational rods to model and solve multi-step equations involving whole numbers <br> "To model $2 x+3=21$, I started with the light green rod, which has a value of 3 . I need to find 2 rods the same colour to place beside it to get to 21. The blue rod works. This means $x$ is 9 ." | Uses inverse relationships or other solution methods to solve multi-step equations involving whole numbers and/or decimals <br> "For $2 x+3=21$, I know 21 is 3 more than $2 x$. So, if I take away 3 from 21, I'll find out what $2 x$ is. Then I can divide by 2 to find $x$. I can record this with a flow chart. $\begin{aligned} & x \rightarrow \times 2 \rightarrow+3 \rightarrow 21 \\ & 9 \leftarrow \div 2 \leftarrow-3 \leftarrow 21 . " \end{aligned}$ | Checks answers and identifies errors in solutions if the answer is incorrect <br> "A student solves the equation $\frac{c}{3}-4=8$ like this: This equation means that $\frac{C}{3}$ is 4 more than 8. <br> So, $\frac{c}{3}=8+4 ; \frac{c}{3}=12$ <br> I know that $\frac{12}{3}$ is 4 , so $c=4$. <br> But if I substitute 4 for c in the left side of the equation, I get $\frac{4}{3}-4$, which is not equal to 8 . Instead of dividing 12 by 3, the student should have multiplied to find a number that has a result of 12 when divided by 3 . The correct answer is $c=36$." |
| Observations/Documentation |  |  |  |
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