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Patterning and
Algebra
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## Activity 10 Assessment

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Solving Multiplication and Division Equations
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| Variables and Equations |  |  |
| :---: | :---: | :---: |
| Evaluates a given expression (using the order of operations) $\begin{aligned} 9 \times 8-3+16 \div 4 & =72-3+4 \\ & =73 \end{aligned}$ <br> "I have to do multiplication and division first. If the order isn't followed and I perform the operations in the order in which they appear, I get 21 R1." | Writes equivalent expressions (for the same number) $5 \times 5,30 \div 2+10,3 \times 5+2 \times 6-2$ <br> "All of these expressions have value 25 ." | Represents balance using concrete materials <br> "The expressions $5+5$ and $2 \times 5$ are equivalent because the pans are balanced. Both have value 10." |
| Observations/Documentation |  |  |
|  |  |  |

Patterning and Algebra

## Activity 10 Assessment

Solving Multiplication and Division Equations

| Variables and Equations (cont'd) |  |  |
| :---: | :---: | :---: |
| Represents preservation of equality symbolically (with or without an unknown) $4+2=5+1$ <br> "I added 2 to each side to keep the balance." | Finds the unknown value in an equation representing a situation $\begin{aligned} -8 & =6 \\ +8-8 & =6+8 \\ & =14 \end{aligned}$ <br> "I added 8 to each side to preserve equality and to isolate *." | Solves problems using equations <br> "I have 2 sets of cards, with the same number of cards in each set. <br> I have 24 cards. How many cards are in each set?" <br> "Let ■ represent the number of cards in each set." $\begin{aligned} 2 ■ & =24 \\ 2 ■ \div 2 & =24 \div 2 \\ & =12 \end{aligned}$ <br> "There are 12 cards in each set." |
| Observations/Documentation |  |  |
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