## Activity 14 Assessment

 Developing Fluency with Operations| Developing Fluency with Operations |  |  |  |
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| Identifies known and unknown information in a problem <br> The school pays \$186.49, including taxes, to rent a cotton candy machine and all the supplies needed to fill 300 bags. <br> They can sell each bag for $\$ 1.50$. The profit is the money earned from the sales less the costs. If they sell all 300 bags, what is their profit? <br> "I know the costs, number of bags they will sell, and price they will charge. I need to determine how much profit they will earn." | Identifies the operation(s) needed to solve the problem <br> "To determine the money they will earn, I need to multiply the price they will charge by the number of bags they sell. I'm not sure how l'll then determine the profit." | Solves problems involving some operations but not others <br> "The earnings are: $300 \times \$ 1.50=\$ 450$. <br> Now, I know that I need to subtract the costs to determine the profit. $450-186.49=263.51$ <br> The profit is $\$ 263.51$. <br> This matches one of the multiple-choice options, which is great." | Solves problems involving all operations <br> "You asked me about the profit per bag and how much they could charge to earn at least $\$ 1$ per bag. To determine the profit per bag, I can divide the profit by the number of bags. $263.51 \div 300 \approx 88$ <br> The profit per bag is about 88¢. To earn at least $\$ 1$ per bag, they need to charge at least 12¢ more per bag. That would be $\$ 1.62$. <br> Since we don't use pennies, they could charge \$1.65, but I think it would be easier to make change if they charge \$1.75." |
| Observations/Documentation |  |  |  |
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