# UNIT 5: Say It with Symbols Word Problems

. Abe, the director of a summer camp, must purchase prizes for the annual talent show. He spent a total of $198 on prizes for the top 14 performers. Each performer receives either a $15 gift certificate for pizza or a stuffed animal worth $13, but Abe can't remember how many of each prize he bought. Below are equations that six students wrote to find the number of gift certificates $x$.

$$15x + 13x = 198 \qquad\qquad 15x + 13(x - 14) = 198$$

$$15x + 13(14 - x) = 198 \qquad\qquad (15 + 13)x = 198$$

$$15x + 13y = 198 \qquad\qquad 15x + 182 - 13x = 198$$

**a.** Which equation(s) could you use to solve this problem? Explain your reasoning.

**b.** How many gift certificates did Abe buy? Show your work.

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Mary is buying tickets for a movie.

- Each adult ticket costs $9.
- Each child ticket costs $5.
- Mary spends $110 on tickets.
- Mary buys 14 total tickets.

Enter the total number of adult tickets and total number of child tickets she buys.