Use the information in each scenario to complete problems 6-10.
6. The concession stand at the football game sells cans of soda for $\$ 0.75$ and bottles of water for $\$ 1.25$. You have $\$ 10.00$. Write an inequality to represent this situation. What can you buy?
7. A stained glass artist has a fixed cost of $\$ 150$. It costs the artist $\$ 15$ to produce each piece, but each piece sells for $\$ 35$. The equation $C=150+15 n$ represents the total cost, $C$, for producing $n$ pieces. The total revenue for $n$ pieces is determined by the equation $R=35 n$. What constraint is necessary to include when modeling this situation?
8. Your dad needs to rent a chainsaw to cut down trees in your yard. The rental company charges $\$ 20$ plus $\$ 6.50$ per hour to rent the chainsaw. Your dad wants to spend no more than $\$ 50$. What constraints apply to this situation? What is the maximum number of hours your dad can rent the chainsaw?
9. Jermaine has $\$ 10.00$ to spend on ice cream. Three scoops cost $\$ 5.99$, plus $\$ 0.75$ for each topping. He always leaves a $20 \%$ tip for the cashier. Write an inequality and use it to determine if Jermaine can afford to buy a three-scoop ice cream with three toppings plus tip the cashier.
10. The local florist never has more than a combined total of 40 daisy and carnation bouquets and never more than 12 carnation bouquets. Write a system of inequalities that represents this situation. Be sure to include all constraints.

