

A salesperson sells two models of vacuum cleaners. One brand sells for \$150 each, and the other sells for \$200 each. The salesperson has a weekly sales goal of at least \$1800.

- a. Write an inequality relating the revenue from the vacuum cleaners to the sales goal.
- b. Graph the inequality.
- c. If the salesperson sold exactly six \$200 models last week, how many \$150 models did she have to sell to make her sales goal?

You need to make at least 150 sandwiches for a picnic. You are making tuna sandwiches and ham sandwiches.

- a. Write an inequality for the number of sandwiches you can make.
- b. Graph the inequality.
- c. Does the point  $(90, 80)$  satisfy the inequality? Explain.