

10-5**Real-Life Career Activity*****Purchasing Manager***

Purchasing managers buy supplies for their companies. They are responsible for knowing what supplies the company needs and how much money they have available to buy supplies. Purchasing managers compare the prices of supplies from various manufacturers to make sure they are getting the best deal. These managers use math so that they do not spend more money than they have available in their budgets.

Suppose a purchasing manager wants to buy chairs for an office. The manager can use the inequality below to calculate how many chairs to buy.

$$cn \leq t$$

In this formula, c is the cost of each item, n is the number of items the manager can buy within the budgeted amount, and t is the total money budgeted for this item.

Suppose the purchasing manager has a budget of \$5,000 for chairs. The manufacturer sells the chairs for \$75 each. How many chairs can the manager order?

$$75n \leq 5,000$$

$$n \leq 5,000 \div 75$$

$$n \leq 66.667$$

The purchasing manager can order 66 chairs.

Solve.

1. Calculate the number of coffee machines a purchasing manager can order with a budget of \$2,500, if each machine costs \$13.45.
2. Calculate the number of dictionaries a purchasing manager can order with a budget of \$3,500, if each dictionary costs \$18.05.
3. A purchasing manager ordered 430 staplers, each costing \$4.65. Calculate how much money the purchasing manager had to spend on staplers.