

Skill 11 Practice:

1. The cost of a birthday party at Classic Boon is \$200 plus \$4 per person. The cost for Fletcher's party came to \$324. Create an equation that represents this situation. How many people came to the party?
2. A cell phone company charges \$55 per month for unlimited minutes plus \$0.25 per text message sent. If the charges to Dayne's cell phone for last month came to \$100, how many texts did he send? Create an equation and solve using algebra.
3. Jasmine's Dad is planning a surprise birthday party for her. He will hire a bouncy castle, and will provide party food for all of the guests. The bouncy castle costs \$150 for the afternoon and the food will cost \$3 per person. Jasmine's dad has a budget of \$300. Write an equation and use it to determine the maximum number of guests he can invite.

Write an equation for each situation in the word problem (you will likely have more than one equation):

4. Mary's car has broken down and it will cost her \$1200 to get it fixed—or, for \$4500, she can buy a new, more efficient car instead. Her present car uses about \$2000 worth of gas per year, while gas for the new car would cost about \$1500 per year. After how many years would the total cost of fixing the car equal the total cost of replacing it?