1. **A landscaper plans to dig a rectangular garden for which the length is to be 3 feet less than twice the width. If the landscaper has 66 feet of fencing to enclose the garden, what should be the dimensions of the garden?**
   a) Define each variable.

   b) Write a system of two equations.

2. **A 10,000 seat amphitheater will sell tickets at $22 and $30 for a Sarah McLachlan concert. How many tickets should be sold at each price for a sellout performance to generate a total revenue of $232,000?**
   a) Define each variable.

   b) Write a system of two equations.

3. **A person plans to invest twice as much money in an account at 4% annual interest as in an account at 9% annual interest. How much should she invest in each account to earn a total of $478 in one year?**
   a) Define each variable.

   b) Write a system of two equations.