**Passing on the Gift**

One of the major tenets of the Heifer Project is “Passing on the Gift”. In this lesson you will learn what gifts cost, and how many gifts will be paid forward next year.

1. Village Gardens in Portland, Oregon is a group of public housing residents, many of whom are refugees or immigrants. Heifer International will provide the group goats for milk and chickens for eggs. Each goat costs $120 and each flock of chickens cost $20. Portland’s middle school and high school musicians raised $1,000 by putting on a charity band and orchestra concert for Village Gardens. The village has requested 10 gifts, so the total number of goats and flocks of chicken will be 10. How many goats and flocks of chickens will be sent to the village?
   1. Define the variables in this problem.
   2. Develop an equation that represents the number of goats and chickens.
   3. Develop an equation that represents the cost of the goats and chickens.
   4. Solve the system of equations using the substitution method.
2. Eight animals will be sent to Cameroon. The animals will be cows and pigs. A cow costs $500 and a pig costs $120. The total cost of all animals is $2,100. Find how many of each animal will be sent to Cameroon.
   1. Define the variables in this problem.
   2. Develop an equation that represents the number of cows and pigs.
   3. Develop an equation that represents the cost of the cows and pigs.

(Problem 2 continued)

* 1. Solve the system of equations using the substitution method.

1. This year, a family in Kosovo that received goats and chickens from Heifer plans to breed their animals to produce 351 new animals to share with their neighbors. One goat produces 3 offspring per year, and one chicken produces 42 chicks a year. In addition to breeding the animals, the family will gain 88 servings of milk and eggs from the animals each day. One goat will yield 16 cups of milk per day, and one chicken will produce 1 egg a day. A serving consists of one cup of milk or one egg. The milk that they don’t drink may be made into yogurt and cheese. Any eggs or milk that they don’t use may be given to a food bank or sold to supplement family income. How many goats does the family receive from Heifer to start the breeding program? How many chickens did the family have at the start?
   1. Define the variables in this problem.
   2. Develop an equation that represents the number of offspring from the goats and chickens each year.
   3. Develop an equation that represents the number of servings of food from the goats and chickens.
   4. Solve the system of equations using the substitution method.