

## Math 1201: Word Problems Worksheet

1. Tickets are sold for the Senior Safari Day at the Greater Vancouver Zoo. Haley buys 5 admission tickets and 3 train tickets. She pays \$65. Howard buys 2 admission tickets and 1 train ticket. He pays \$25.
  - a) Create a linear system to model this situation.
  - b) Solve the system. What is the price of each type of ticket?
  
2. Michelle and Marty spend the afternoon at the local fair. Michelle rides the roller coaster 3 times and the super swing 5 times. She pays \$25. Marty rides the roller coaster 5 times and the super swing once. He pays \$27.
  - a) Create a linear system to model this situation.
  - b) Solve the system. What is the price of each type of ticket?
  
3. A store sells running shoes and hiking boots. The store makes \$25 profit from the sale of a pair of running shoes and \$50 profit from the sale of a pair of hiking boots. One afternoon the company sold 14 pairs of footwear for a total profit of \$450.
  - a) Create a linear system to model this situation.
  - b) Solve the system. What does this mean?
  
4. A dog groomer charges \$50 to groom a small dog and \$75 to groom a large dog. On Saturday afternoon, the groomer groomed 9 dogs for a total of \$500.
  - a) Create a linear system to model this situation.
  - b) Solve the system. What does this mean?
  
5. A large tree removes 1.5 kg of pollution from the air each year. A small tree removes 0.04 kg. An urban forest has a total of 1650 trees. Together, these trees removed 1818 kg of pollution from the air.
  - a) Create a linear system to model this situation.
  - b) How many of each size tree was in the forest?