

Systems of Linear Equations Additional Problems

1. The Marvin family likes to go to major league baseball games. On opening day at Major League Stadium the family bought 4 sodas and 4 hotdogs for \$14.50. One month later, the Marvin family attended another game at Major League Stadium. At this game, they bought 2 sodas and 5 hotdogs for \$13.25.
 - What is the cost of sodas and hotdogs at Major League Stadium? Use mathematics to explain how you determined your answer. Use words, symbols or both in your explanation.

2. Sam has a collection of fifty baseball cards. The Major League baseball cards are worth \$3.50 each and the Minor League baseball cards are worth \$2.00 each. Sam's collection is worth \$122.50.
 - Write a system of equations that can be used to determine the number of each type of card Sam has.
 - How many of each type of card does Sam have? Use mathematics to justify your answer.

3. At the grocery store, apples are one price and chocolate bars are another. Mary buys three apples and one chocolate bar for \$2.70. Bill buys one apple and 4 chocolate bars for \$6.40.
 - Write a system of equations that can be used to determine the cost of apples and chocolate bars.
 - Determine the cost for an apple and a chocolate bar at the grocery store. Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.