

Solving Systems of Equations by the Elimination Method

1. The sum of two numbers is 25 and their difference is 7. What are the numbers?

a) Write a system of equations.

b) Solve using the elimination method.

2. The choir at Smart High is selling tickets to their annual holiday concert. A child admission sells for \$2.00 and an adult admission sells for \$4.00. They sold 200 tickets and raised \$650 from the event. How many child and adult admissions were sold?

a) Write a system of equations.

b) Solve using the elimination method.

3. Mary went to the grocery store for some fruit. The apples were \$1.00 per pound and the oranges were \$0.50 per pound. She spent \$5.00 all together and took home a total of 8 pound of fruit. How many pounds of apples and oranges did she buy?

a) Write a system of equations.

b) Solve using the elimination method.

4. A cash register contains 53 coins worth \$4.40. They are all nickels and dimes. Write two equations that would be used to solve the system.

a) Write a system of equations.

b) Solve using the elimination method.