

Station 1: Define x and y . Write two standard form equations. Solve the system using elimination.

1) Castel and Gabriella are selling apple pies and lemon meringue pies. Castel sold 6 apple pies and 4 lemon meringue pies for a total of \$80. Gabriella sold 6 apple pies and 5 lemon meringue pies for a total of \$94. What is the cost of one apple pie? Of one lemon meringue pie?

2) The sum of two numbers is 70. Their difference is 24. What are the two numbers?

3) On Monday Joe bought 10 cups of coffee and 5 doughnuts for his office at the cost of \$16.50. It turns out that the doughnuts were more popular than the coffee. On Tuesday he bought 5 cups of coffee and 10 doughnuts for a total of \$14.25. How much was each cup of coffee? How much was each doughnut?

Station 2: Define x and y . Write two standard form equations. Solve the system using elimination.

- 1) Imani is selling tickets to a dance competition. On the first day, she sold 3 senior citizen tickets and 3 child tickets for a total of \$69. The second day, the school took in \$91 by selling 5 senior citizen tickets and 3 child tickets. What is the price of 1 senior citizen ticket? Of 1 child ticket?
- 2) A photo studio offers portraits in 8x10 and wallet-sized formats. One customer bought two 8x10 portraits and four wallet-sized portraits and paid \$50. Another customer bought three 8x10 portraits and two wallet-sized portraits and paid \$50. What is the price of an 8x10 portrait? Of a wallet-sized portrait?
- 3) A hotel offers 2 activity packages. One costs \$192 and includes 3 hours of horseback riding and 2 hours of parasailing. The second costs \$416 and includes 4 hours of horseback riding and 6 hours of parasailing. What is the cost for 1 hour of each activity?

Station 3: Define x and y . Write two standard form equations. Solve the system using elimination.

1) There are 13 animals in the barn. Some are chickens and some are horses. There are 40 legs in all. How many of each animal are there?

2) Ming and Carlos are selling cookie dough. Ming sold 8 packages of chocolate chip cookie dough and 12 packages of gingerbread cookie dough for a total of \$364. Carlos sold 1 package of chocolate chip cookie dough and 4 packages of gingerbread cookie dough for \$93. Find the cost of one package of chocolate chip cookie dough and the cost of one package of gingerbread cookie dough.

3) Amanda and Niya are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. Amanda sold 6 packages of tulip bulbs and 12 bags of daffodil bulbs for a total of \$198. Niya sold 7 packages of tulip bulbs and 6 bags of daffodil bulbs for a total of \$127. Find the price of one package of tulips bulbs and the price of one bag of daffodil bulbs.