Name: _____

CC Algebra

Systems of Equations Word Problems - Day 2

1) A hardware store owner sold 6 bolts and 7 washers for $1.22. The same day, he sold 3 bolts and 10 washers of the same size for $1.13. Find the cost of 1 bolt and 1 washer.

2) Tickets to a school play cost $5.00 for general admission and $3.50 with a student ID. On opening night, 400 tickets were sold for a total of $1,580. How many general-admission tickets were sold?

3) The sum of two numbers is 25. If three times the smaller number is subtracted from twice the larger number, the result is 10. Find the numbers.

4) A grocer bought 3 boxes of peaches and 5 boxes of pears for $59. Another grocer bought 5 boxes of peaches and 2 boxes of pears from the same dealer for $54. Find the cost of one box of peaches and 1 box of pears.

5) A farmer sold 6 boxes of tomatoes and 8 boxes of cucumbers for $82. At the same prices, he sold 9 boxes of tomatoes and 6 boxes of cucumbers for $84. Find the price of 1 box of tomatoes and 1 box of cucumbers.

6) A shopper bought 2 packages of pecans and 5 packages of cashews for $13.75. Another shopper bought 3 packages of pecans and 4 packages of cashews for $13.45. Find the cost of 1 package of each.

7) Tickets for a high school dance cost $0.50 each if purchased in advance of the dance, but are $0.75 each if bought at the door. For the dance, 100 tickets were sold and $60 was collected. How many tickets were sold at the door?

8) The sum of two numbers is 101. The larger number is 4 less than twice the smaller number. Find the numbers.

1) One bolt costs 11¢ and one washer costs 8¢.

2) 120

3) 8 and 17

4) One box of peaches costs $8 and one box of pears costs $7.

5) One box of tomatoes costs $5 and one box of cucumbers costs $6.50.

6) One package of pecans costs $1.75 and one package of cashews costs $2.05.

7) 40 tickets

8) 35 and 66