SYSTEMS MONEY PROBLEMS

- 1. A student has a collection of nickels and dimes. If the collection has a total of 184 coins valued at \$14.05, how many of each type of coin does he have? x + y = 184, 10x + 5y = 1405
- 2. A sum of money amounting to \$16.00 consists of dimes and quarters. If there are 98 coins in total, how many dimes are there? x + y = 98, 10x + 25y = 1600
- 3. John has a sock containing quarters and half-dollars and the total value is \$42.50. If the number of quarters and half-dollars were interchanged the coins would have a value of \$24.00. How many quarters and half-dollars are there in the sock? 25x + 50y = 4250, 50x + 25y = 2400
- 4. You have been asked to make a deposit of \$205.00 in loonies and ten dollar bills. If the deposit consists of 34 items, how many of each kind do you have?
 x + y = 34, 1x + 10y = 205
- 5. Tickets to a concert cost \$7.00 for students and \$12.00 for adults. A total of \$366.00 was raised when 38 tickets were sold. How many of each type were sold? x + y = 38, 7x + 12y = 336
- 6. Tickets to a basketball game cost \$4.50 for children under the age of 12 and for everyone else the cost is \$8.25. If 425 tickets were sold for a total of \$2756.25; how many children's and adult's tickets were sold? x + y = 425, 45x + 825y = 275625
- 7. If six CDs and 4 cassettes cost \$152.00 while 3 CDs and 7 cassettes cost \$131.00, find the cost of each CD and of each cassette. 6x + 4y = 152. 3x + 7y = 131
- 8. If 12 oranges and 7 apples cost \$5.02 while 6 oranges and 2 apples cost \$2.00, find the cost of an orange and of an apple? 12x + 7y = 502, 6x + 2y = 200
- 9. Tickets to a concert cost \$23.00 for the main floor and \$16.00 for the balcony. If the receipts from the sale of 340 tickets was \$6910.00, how many tickets at each price were sold? x + y = 340, 23x + 16y = 6910