

Practice Problems:

1) Oklahoma State University's Police Department placed two orders with a document company. The first order was for 10 boxes of computer paper and 5 boxes of stationary and cost \$180. The second order was for 12 boxes of computer paper and 10 boxes of stationary and cost \$300. The bill does not list the per-item price. What is the cost of one box of computer paper and of one box of stationary?

2) A friend brought small bags of cookies to sell at a fairly large BCS Championship Game Watch Party (there were no TCU fans present however). Three kinds of cookies were sold: Stars (sold for \$1 per bag), Circles (sold for \$0.75 per bag) and Stars and Stripes (sold for \$1.50 per bag).

He brought the cookies to the Watch Party in three large boxes. By volume, it is a known fact that 1 of the large boxes can hold 100 bags of Stars, or 120 bags of Circles or 80 bags of Stars and Stripes (or a corresponding mix of cookies). HINT: Don't concern yourself with what each box held; view this as an aggregate limit of numbers of cookies.

All cookies brought were sold, a total of 300 bags. The total amount of money raised was \$312. All bags of cookies brought in the boxes were sold.

Can you determine how many of each of the three cookie types were brought/sold? HINT: I believe you can!

3) A collection of 24 coins, consisting of nickels, dimes, and quarters, has a value of \$3.40. If there are twice as many quarters as nickels, and one-third as many nickels as dimes, how many coins of each kind are there?