## More Word Problems - Yay!

Use the questions below to write a set of equations to solve the problems.

1. Samantha has 30 coins, quarters and dimes, which total $\$ 5.70$. How many of each does she have?

Let's analyze the problem...
a) We are being asked to find the number of

$\qquad$ and $\qquad$ .
b) Since we are finding the number of $\qquad$ and $\qquad$ these are our two variables. We are going to assign $\qquad$ the letter $\qquad$ and
$\qquad$ the letter $\qquad$ _.
c) The two totals we are given are $\qquad$ coins and \$ $\qquad$ .

Because we have been given two variables to solve for, and two totals, we will need to write two equations.

Equation 1 - Total Number of Coins



Solve the system of equations:
2) If 4 apples and 2 oranges equals $\$ 1$ and 2 apples and 3 orange equals $\$ 0.70$, how much does each apple and each orange cost?
a) We are being asked to find the cost of each
$\qquad$ and each $\qquad$ .
b) Since we are finding the cost of $\qquad$ and $\qquad$ these are our two variables. We are going to assign $\qquad$ the letter $\qquad$ and $\qquad$ the letter $\qquad$ .
c) The two totals we are given are $\$$ $\qquad$ for 4 apples ( $\qquad$ ) and 2 oranges (__) AND \$ ___ for 2 apples (___) and 3 oranges (___).

Equation 1


Equation 2


Solve the system of equations:
3) The school's dance team had their spring show last night. The admission price for students was $\$ 4$ per person; the admission price for adults was $\$ 2$ per person. If 105 tickets were sold, and $\$ 270$ was collected in admissions, how many adult, and how many student tickets were sold?
a) We are being asked to find $\qquad$ and $\qquad$ .
b) Since we are finding the number of $\qquad$ and the number of
$\qquad$ these are our two variables. We are going to assign $\qquad$ the letter $\qquad$ and $\qquad$ the letter $\qquad$ .
c) The two totals we are given are $\$$ $\qquad$ the total amount collected in admissions and $\qquad$ the total number of adults and students attending.


Equation 1 - Total Number of Tickets Equation 2 - Total Value of Tickets


Solve the system of equations:

