

You and your partner will be given two equations and will use the substitution method to solve. For each problem do the following:

- Circle one side of the equation, the side that is ready to be substituted.
- **Copy that circled part** on one of your sticky **labels**.
- **Paste** the label over correct variable **in the other equation**.
- After pasting, solve to find both answers to the problem.

- 1) George drank a can of tomato juice and then finished off 3 bottles of root beer, a total of 60 fluid ounces. It takes two bottles of root beer to fill the tomato juice can.

$$T + 3 \cdot R = 60 \qquad 2 \cdot R = T$$

So a bottle of root beer contains _____ fl. oz. and a can of juice contains _____ fl. oz

Do your answers check in the **original story**? _____

- 2) A cell phone and the first month cost \$200. The phone cost \$80 more than the first month.

$$C + M = 200 \qquad C = 80 + M$$

So the phone cost _____ while the monthly cost is _____.

Do your answers check in the **original story**? _____

- 3) Connie loves bikes and owns both a racing bike and a Mountain bike. While the Mountain Bike is 8 pounds heavier than her racing bike, they weigh a total of 60 pounds.

$$M = 8 + R \qquad M + R = 60$$

Connie's mountain bike weighs _____ lbs and her racing bike weighs only _____ lbs. I assume you checked in the **story**, right? _____

- 4) Two burgers and an order of French fries cost \$6.25 at the Greasy Spoon Café. The fries are \$.50 less than a burger.

$$2 \cdot B + F = 6.25 \quad F = B - 0.50$$

So a burger costs _____ and the fries cost _____. Check? _____

- 5) Eric bought 4 CD's and two DVD's on Amazoning.com for \$74. Each DVD was \$4 more than each CD.

$$4 \cdot C + 2 \cdot D = 74 \quad D = C + 4$$

(Remember to distribute.)

So each CD costs _____ and each DVD costs _____. Check? _____

- 6) DavyBoy has triple the number of songs on his iPid than Mary has. She also 400 less songs on her player than DavyBoy.

$$D = 3 \cdot M \quad M = D - 400$$

So Mary has _____ songs and DavyBoy has _____ on their iPids. Check? _____