

First Problem: One US dollar is worth 1.15 Canadian dollars. How much is one Canadian dollar worth in US dollars? The solution is easy, but lets do it in steps:

Step 1. If one US dollar is worth 1.15 Canadian dollars, how much is 100 US dollars worth in Canadian dollars?

Step 2. How much is 175 US dollars worth in Canadian dollars?

Step 3. How much is X US dollars worth in Canadian dollars?

Step 4. Now we have a simple formula, and can use it to solve the first problem. Set is equal one to get an easy equation to solve.

Second problem without the steps: One US dollar is worth 3.75 Saudi rials. How much is one rial worth in dollars?

Third problem: A bottle and a cork cost \$1.10. (Sounds better to say it: ‘ a bottle and a cork cost a dollar ten cents...’) The bottle cost a dollar more than the cork. How much is the cork?

Step 1: If the cork cost .20, how much is the bottle? \_\_\_\_\_ What is the total? \_\_\_\_\_

Step 2: If the cork cost .10 how much is the bottle? \_\_\_\_\_ What is the total? \_\_\_\_\_

Step 3: If the cork cost X how much is the bottle? \_\_\_\_\_ What is the total? \_\_\_\_\_

Step 4: Since we actually know what the total is (as a number) we can set the expression in step 3 equal to the total to get an easy equation to solve.

Fourth problem, without the steps. Rupert and Son advertise that they have a total of 32 years experience in the TV repair business. If Rupert has 6 more years experience than his son, how long has each of them been repairing TVs?

Fifth problem: You go to a club which charges \$20 to get in and \$5 per drink. You have \$75 to spend. What is the greatest number of drinks can you get?

Step 1: How much would you have to spend to get 2 drinks (including the cover charge)?

Step 2: How much would you have to spend to get X drinks?

Step 3: Since you know how much you have to spend, write the expression in step 2 as an inequality and solve.

Sixth problem, without the steps: You saved \$15,000 for the down payment on a house. In order to avoid paying useless and expensive mortgage insurance, you want to put 20% down. What limit does this place on the price of the house you can buy?