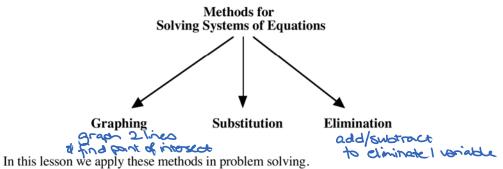
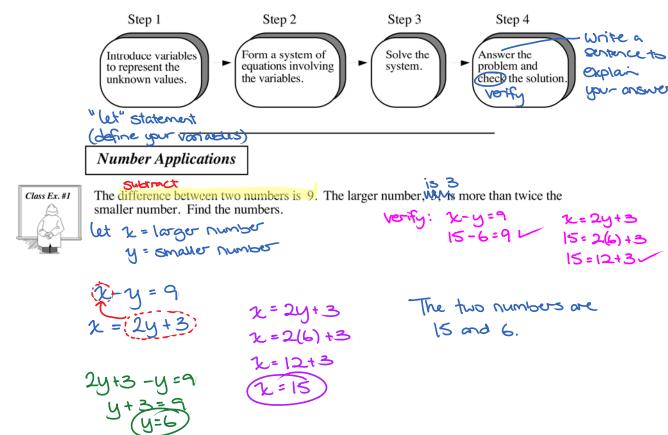
## Systems Of Linear Equations Lesson #5: Number and Money Applications

We have discussed three different methods for solving systems of equations.



## **Problem Solving**

We can solve a variety of types of problems using a system of equations. There are four general steps to problem solving which are shown in the flowchart below.



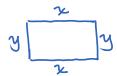
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The perimeter of a rectangle is 40 metres. The width is 4 metres less than the length. Find the dimensions of the rectangle.

I and w

let 1 = length



2+2+y+y

2x+2(x-4)=40 22+22-8=40 4x-8=40

The length is 12m and the width is 8m.

## **Money Applications**



Gary had a total of \$260 in five-dollar bills and ten-dollar bills. If he has 33 bills in total, how many of each denomination does he have?

(et x = # of \$65 bills 5(x + y = 33)  $\Rightarrow 5x + 5y = 165$  y = # of \$10 bills 5x + 10y = 260 = (5x + 10y = 260)

52 + 10y=260 5(14)+10(19)=260 70+190=260V

There are 14 \$5 bills and 19 \$10 bills

pg.483 #1-7 WS #2,4,8

Complete Assignment questions #1 - #10

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