Try this...
Find $y$ if $x=2$ given $y=3 x+2$.

What did you do to solve for $y$ ?

Examples:

1. $y=x+8$
$y=4 x-1$
2. $y=-3 x+5$
$2 x+y=6$
3. $\begin{aligned} & 4 x+3 y=37 \\ & y=x-4\end{aligned}$

You Try!
a. $y=6 x-11$
b. $5 x-4 y=-3$
$-2 x-3 y=-7$

$$
y=-3 x+5
$$

## APPLICATIONS



Tank \#1: $\qquad$ Tank \#2: $\qquad$
(b) Find out how long it takes, to the nearest minute, for the two tanks to have the same number of gallons. Will it take longer or shorter than 2 hours? Justify.
5. A rectangle has a perimeter of 42 feet. Its length, $L$, is three feet more than twice its width, $W$.
(a) Create an equation in terms of $L$ and $W$ for the perimeter of the rectangle.
(b) Create an equation that relates $L$ and $W$ based on the length being three feet more than twice the width.

(c) Solve the system of equations that you just created by substitution to find the values of the length and width.

