UNIT Q Chapter 3 Lesson 2

When you change a Slope-Intercept Form equation to a standard form equation YOU MUST CLEAR FRACTIONS!

Exampe 1

$y = \frac{2}{3}x + 5$	The denominator is 3, so multiply EVERY TERM by 3
$(3)y = (3)\frac{2}{3}x + (3)5$	This clears the 3 in the denominator and the other terms get multiplied by 3
$3y = 2x + 15$	You have cleared the denominator
$3y = 2x + 15$ -2x -2x	Now subtract 2x from both sides
-2x + 3y = 15	The x term is written first and then the y term is written second because That is the STANDARD FORM OF THE EQUATION: Ax + By = C

Example 2

$y = -\frac{3}{5}x - 6$	The denominator is 5, so multiply EVERY TERM by 5
$(5)y = -(5)\frac{3}{5}x - (5)6$	This clears the 5 in the denominator and the other terms get multiplied by 5
$5y = -3x - 30$	You have cleared the denominator
$5y = -3x - 30$ +3x +3x	Now add 3x to both sides
3x + 5y = -30	The x term is written first and then the y term is written second because That is the STANDARD FORM OF THE EQUATION: Ax + By = C

Remember to WATCH YOUR SIGNS during each step!!!