The Box Method for Factoring a Polynomial

EXAMPLE: $10x^2 + 11x - 6$

1st create a 2x2 box

2nd, in the top left corner put the first term and in the bottom right corner put the last term.

$10x^2$	
	-6

3rd, multiply these two terms together to get $-60x^2$. Find two factors of $-60x^2$ that when added together they will give you the middle term $11x$. These are $15x$ and $-4x$. Put these into the open boxes.

$10x^2$	$15x$
$-4x$	-6

4th, factor the terms in each row and in each column.

	$2x$	3
$5x$	$10x^2$	$15x$
-2	$-4x$	-6

5th, the sum of the factors for the columns and the sum of the factors for the rows are the polynomial's factors: $(2x+3)(5x-2)$