<ul> <li>c) Bottom: b</li> <li>d) Sides: factors of top (ac) that add up or subtract to bottom (b)</li> <li>3) Parenthesis <ul> <li>a) Set up your two parenthesis with "ax" inside each of them</li> <li>b) Place one of the side numbers in each parenthesis</li> <li>c) Simplify like you would simplify a fraction</li> </ul> </li> </ul>		
<b>Example 1:</b> Factor $10y^2 - 35y + 30$		
Step 1:	Step 2:	Step 3:
<b>Practice 1:</b> Factor $16a^2 - 12a - 18$		
Step 1:	Step 2:	Step 3:
<b>Example 2:</b> $5x^2 + 13x + 6$		
Step 1:	Step 2:	Step 3:
<b>Practice 2:</b> $x^2 - 2x - 3$		
Step 1:	Step 2:	Step 3:
	1	1

Factoring for  $ax^2 + bx + c$ 

Take out the greatest common factor of all terms, if any, put it outside the parenthesis and divide by it

**Steps:** 

1) **GCF** 

2) Big X

a) Label "a", "b" and "c"b) Top: "a" times "c"