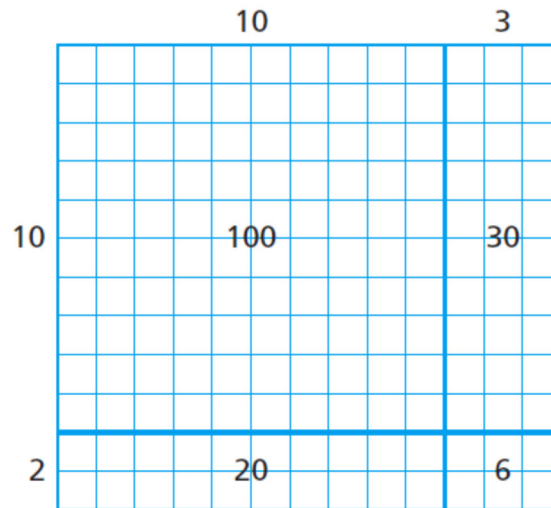Name: _____   Date: _____

Learning Goal 3.3	Factor trinomials of the form $ax^2 + bx + c$.

Thinking of multiplication as an area model again, consider the multiplication statement 12×13

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This model assumes each of the small squares has a side length of _____, and an area of _____.

Give each space a different value and reconsider what the value of the overall area could be.

      Side length of the small square:

      Area of the small square:

      Area of the overall rectangle:

Now what happens if you don't know the value of the side length?

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Using a single x^2 tile and as many of the others as you like, create a rectangle. What expression do your tiles represent?

Write out the multiplication statement for this area.

Compare with your group. What patterns do you see in your factors and products? Can you come up with a faster way?