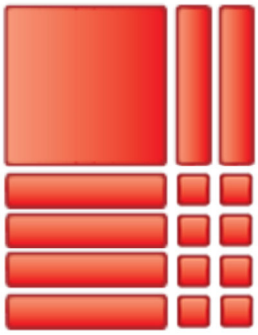
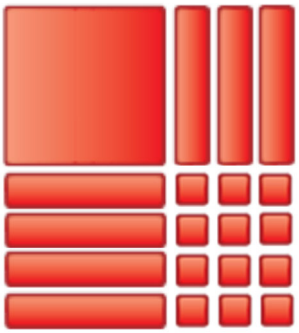
Name: _____ Date: _____

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

Yesterday we investigated how we can relate an area model to binomial products and trinomial expressions.





But again, you cannot use this model forever.

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Example Factor the following expression. Expand your answer to check your work.

1. $x^2 + 10x + 16$

2. $x^2 - 2x - 8$

3. $z^2 - 12z + 35$

4. $m^2 - 8m + 7$

5. $a^2 + 7a - 18$

6. $q^2 - 7q - 18$

7. $p^2 + 7p - 18$

Example What are all the possible values of a? For each value, factor the expression.

$$x^2 + ax + 24$$