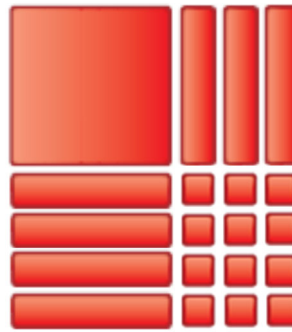
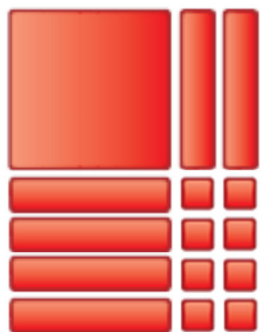


Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Learning Goal 1.2**Factor trinomials of the form  $ax^2 + bx + c$ .

How we can relate an area model to binomial products and trinomial expressions?

**But**, you cannot use this model forever.

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

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

$$x^2 + bx + c$$

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

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

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

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

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

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

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

$$x^2 + ax + 24$$