

Math Lab: Exploring Factoring with Algebra Tiles Possible Solutions Analysis

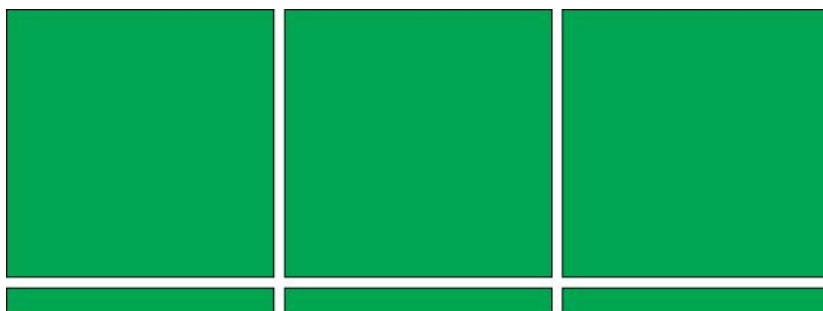
1. a.



length: $x + 2$

width: 2

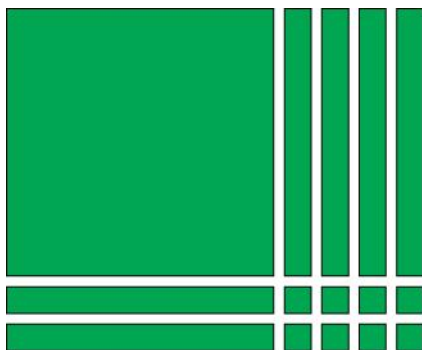
b.



length: $3x$

width: $x + 1$

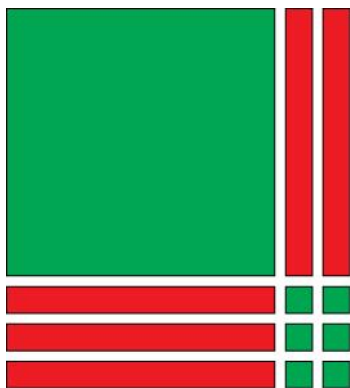
c.



length: $x + 4$

width: $x + 2$

d.



length: $x - 2$
width: $x - 3$

2. The dimensions of the rectangle can be multiplied to give the area of the rectangle.
3. The procedure in this Math Lab is the opposite of the procedure in Lesson 1. In Lesson 1 the dimensions of the area were known and the area had to be determined. In this lesson the area is given and the dimensions had to be determined.
4.
 - a. The first term of the trinomial is the product of the first terms in the length and width.
 - b. The coefficient of the middle term in the trinomial is the sum of the second terms of the length and width.
 - c. The last term of the trinomial is the product of the second terms of the length and width.