Unit 2 Discussion Example – Post 1: Initial Thread

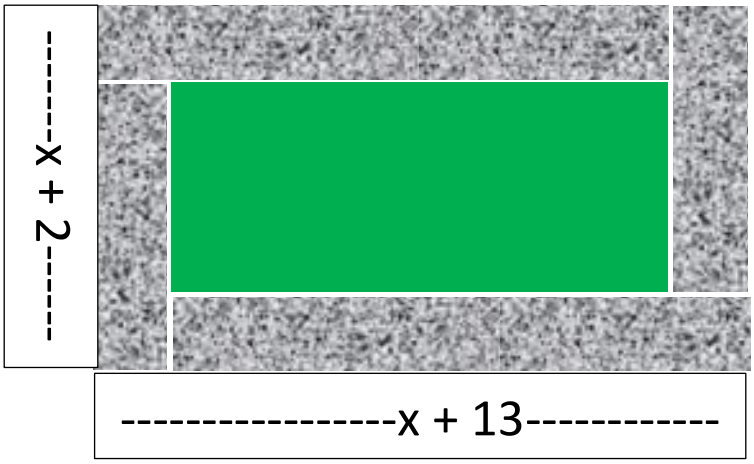
Putting It Together and Taking It Apart

a) I will choose a rectangle with area, A = length*width

b) The length of my bed will be 13 feet and then I will add a walkway of unknown dimension, x. The total length is (13 + x) or (x + 13).
The width of my garden is 2 feet and then I will add a walkway to that of unknown dimension but the same as around the length, x. The total width would be (2 + x) or (x + 2).

c)

(Image by Paul Neumann from Pixabay)



d) Length, l = x + 13 feet

Width, w = x + 2 feet

To find the area, I need to calculate A = l * w

Area = (x + 13)(x + 2) I can FOIL this to get:

First = x * x = x^2

Inner = 13*x = 13x

Outer = x*2 = 2x

Last = 13*2 = 26

= x^2 + 13x + 2x + 26

x^2 + 15x + 26 square feet