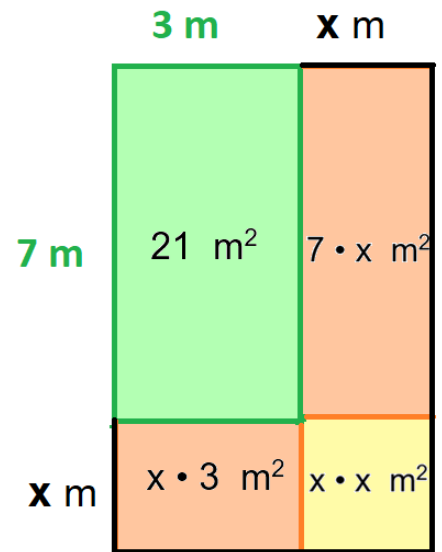


Arturo created a drawing to show the area of Ariana’s new garden, when Ariana increases both the length and width of her original garden by some unknown number of meters, x .

Arturo also wrote the following equation to represent the area of Ariana’s new garden:

$$(7 + x) \cdot (3 + x) = (7 \cdot 3) + (7 \cdot x) + (x \cdot 3) + x^2$$



1. **Pick a value for x and draw a picture** to check that Arturo’s equation is correct.

Increase in length and width: _____

Drawing:



2. **Write a sentence** that explains why $(7 + x) \cdot (3 + x)$ is equal to $(7 \cdot 3) + (7 \cdot x) + (x \cdot 3) + x^2$. Use the meaning of parts of the equation as lengths, widths, and areas of Ariana's garden.

