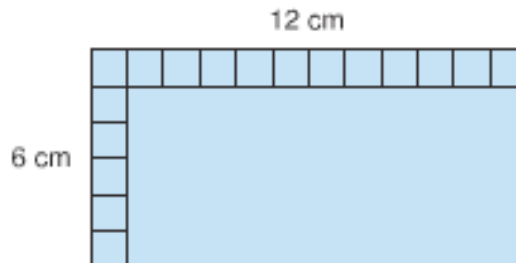
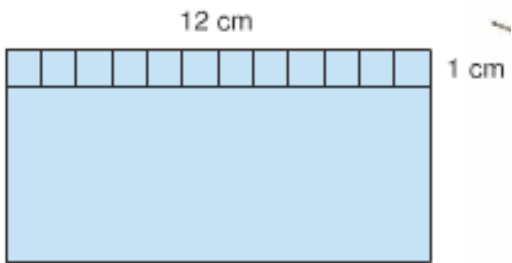


# Area

- the total # of **squares** in a polygon (2D); To calculate the area of a rectangle, you should always draw a sketch then:

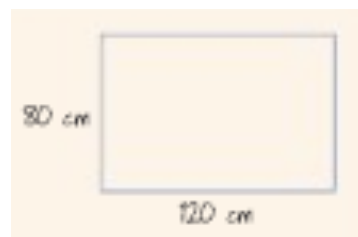
1. measure the length and width of a rectangle and label each side
2. multiple the length by the width...
3. Rule can be in the form of a **Formula  $A = L \times W$**

A = Area, L = Length W = Width



$$\begin{aligned} A &= L \times W \\ &= 12 \times 6 \\ &= 72 \text{ cm} \end{aligned}$$

**Example:** Jessica build a dog crate for his dog. The floor of the crate is a rectangle. The dimensions of the floor are 80 cm by 120 cm. What is the area of the floor?



$$\begin{aligned} A &= L \times W \\ &= 120 \times 80 \\ &= 9600 \text{ cm} \end{aligned}$$