FIG. 1: How for away can the end of the stick be from the closest measure on the ruler?
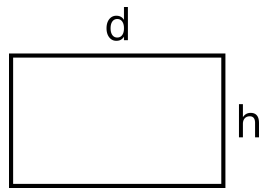

FIG. 2:

$$d, \delta d \tag{1}$$

$$h, \delta h \tag{2}$$

$$A = d * h \tag{3}$$

$$\delta A = ? \tag{4}$$

$$\Delta A = \Delta d + \Delta h \tag{5}$$

$$\delta A = A * \Delta A = d * h * (\Delta d + \Delta h) = d * h * (\frac{\delta d}{d} + \frac{\delta h}{h}) \tag{6}$$