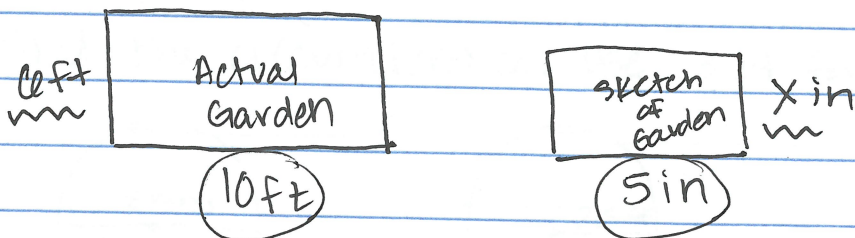


Scale Drawings

* Your ratio can have the same units
or different units

Ex.



$$\frac{10 \text{ ft}}{5 \text{ in}} = \frac{6 \text{ ft}}{x \text{ in}}$$

$$\frac{30}{10} = \frac{10x}{10}$$

$$3 \text{ in} = x$$

Ex. A map has a scale of $2 \text{ in} : 3 \text{ mi}$. Distance on a map to Mt. Hood from Alan's home is 10 in. What is the actual distance.

$$\frac{2 \text{ in}}{3 \text{ mi}} = \frac{10 \text{ in}}{x \text{ mi}}$$

$$\frac{2x}{2} = \frac{48}{2}$$

$$x = 24 \text{ miles}$$