

1/16 Scale Drawings

dimensions - length and width

scale drawing - a proportional two dimensional of an object

scale - ratio of 2 sets of measurements

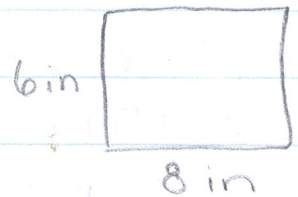
Set up a proportion with the scale to find the unknown measurement

Ex: scale: 2 in : 3 ft

Find actual dimensions.

$$\frac{2 \text{ in}}{3 \text{ ft}} = \frac{6 \text{ in}}{x \text{ ft}} = 9 \text{ ft}$$

$$\frac{2 \text{ in}}{3 \text{ ft}} = \frac{8 \text{ in}}{x \text{ ft}} = 12 \text{ ft}$$



Changing the scale: Find the actual dimensions first and use them with the new scale. new scale 2 in = 6 ft

$$\frac{2 \text{ in}}{6 \text{ ft}} = \frac{x \text{ in}}{9 \text{ ft}} = 3 \text{ in}$$

$$\frac{2 \text{ in}}{6 \text{ ft}} = \frac{x \text{ in}}{12 \text{ ft}} = 4 \text{ in}$$