

* Weekly Assignments *

- Step 1: Identify the formula
- Step 2: Line up the formula with the problem.

Formula: $12 \text{ in} = 1 \text{ ft}$

Problem: $36 \text{ in} = \underline{x} \text{ ft}$

- Step 3: Cross multiplication

$$12x = 36$$

- Step 4: Get x by itself by dividing

$$\frac{12x}{12} = \frac{36 \text{ in}}{12 \text{ in}} = 12 \overline{) 36}$$
$$\begin{array}{r} 3 \\ 12 \overline{) 36} \\ \underline{-36} \\ 0 \end{array}$$

$x = 3 \text{ ft}$

Measurements

Formula: $12 \text{ in} = 1 \text{ ft}$
OR
 $1 \text{ ft} = 12 \text{ in}$

Problem:

For mula:

~~$\frac{x \text{ in}}{12 \text{ in}} = \frac{2 \text{ ft}}{1 \text{ ft}}$~~

$$\frac{1x}{1} = \frac{24}{1} = \boxed{x = 24}$$

24 in

Measurements

Formula: $12 \text{ in} = 1 \text{ ft}$

OR

$1 \text{ ft} = 12 \text{ in}$

Problem: ~~$24 \text{ in} = x \text{ ft}$~~

For mula: ~~$12 \text{ in} = 1 \text{ ft}$~~

$$\frac{\cancel{12}x}{\cancel{12}} = \frac{24 \text{ ft} \cdot \text{in}}{12 \text{ out}}$$

Answer: $x = 2 \text{ ft}$

$$\begin{array}{r} \boxed{2} \\ 12 \overline{)24} \\ \underline{24} \\ 0 \end{array}$$