

Warm-up

1) $3.32 \times 4.5 / 1.88$

2) $91.044 + 1.0023 - 5.72$

3) $92.12 - 5.42 \times 3.8$

Factor-Label

-a method of using fractions to convert units of measurement

This method of setting up problems will be used for many types of problems.

The goal is to create a system where the desired unit of measurement is only one remaining.

Units of measurement in the top will cancel with those in the bottom

Once all of your units cancel (except the one you want to keep), simply multiply all of the top together and divide by all of the bottom and apply sig figs one time.

Example:

Convert 2.53 miles to centimeters (hint: there is 2.54 cm in an inch)

Density: the ratio of mass to volume

$$d = m/v$$

Rearrange the formula to solve for mass

Rearrange the formula to solve for volume

