

Solving measurement conversion problems
using ratios

Connect

units of measurement

6 feet tall

170 pounds

1.8 meters tall

77.1 kilograms

I do

Lots of people run a "5k" race. How many miles is a 5k ($1.6\text{km} = 1\text{mi}$)

The heaviest watermelon ever weighed 159 kilograms. How many pounds is that ($10\text{kg} = 22\text{ pounds}$)

We do

A typical sheet of paper is 11 inches long. How many centimeters is that? (1in = 2.54cm)

A marathon race is 26.2 miles. How many kilometers is that? (8km = 5mi)

You do together on whiteboard

Astronomers use a unit of measurement called an "Astromical unit" (AU) to measure large distances in space. For instance, Mars is about 3.5 AU from the sun. How many miles is Mars from the sun (1 AU = 9,296,000 miles)

You do alone on index card

Dr D's car can hold 9.5 gallons of gas. In Europe, they sell gas in LITERS. How many liters of gas could his car hold (1 gal = 3.79 liters)