

Math 1030 #3a

Units describe what is being measured or counted.

We can add or subtract quantities only when they have the same units.

We can multiply and divide quantities even if they have different units.

Unit Conversions are done by multiplying a quantity by the appropriate form of 1. These are called Conversion Factors.

EX 1: Convert

a) 24 feet to yards

b) 2.5 hours to seconds

c) 60 miles per hour to feet per minute

d) 1 ton to ounces

e) 12 gallons to quarts

EX 3:

Given 1 meter = 100 centimeters, find a conversion between square meters and square centimeters.