MAT 142: College Mathematics
Lecture Notes: Section 10.5

10.5: The Metric System and Dimensional Analysis:

The metric measurement system:
Basic Units:

Prefixes:

kilo (k)	hecto (h)	deka (da)	Base Unit	deci (d)	centi (c)	milli (m)

Converting Units of Measurement in the Metric System:

a) 2.67 km = _____ m

b) 56.3 mg = _____ dg

Using dimensional analysis and unit fractions to convert measurements:
Converting U.S. units:

72 in. = _____ yds.

Converting between U.S. and Metric units: Use tables on pages 494, 495, and 497

a) 18 m = _____ yds.

b) 210 lbs. = _____ kg

c) 2.1 kL = _____ gal.

d) 77 degrees F = _____ degrees C

e) 65 mph = _____ kmph