CEM – 101 Unit 1
Metric Prefixes and Practice Problems

kilo- (k) **1,000 x bigger than base**

1,000 grams = 1 kilogram (kg)
1,000 meters = 1 kilometer (km)

centi- (c) **100 x smaller than base**

1 gram = 100 centigrams
1 meter = 100 centimeters

milli- (m) **1000 x smaller than base**

1 gram = 1,000 milligrams
1 meter = 1,000 millimeter

Convert the following:

a. 158 L to mL
b. 35.2 cm to km
c. 0.059 kg to g
d. 23.7 mm to m
e. 425 m to cm
f. 465 m to km
g. 5,890 mg to cg
h. 92,000 mg to kg
i. 30.9 cL to L
j. 35.1 cm to m
k. 44,300 mg to g
l. 890 cm to mm