

Name _____ Period _____ Date _____

Metric Conversions

- I. Use dimensional analysis to solve the following metric conversions. All answers should be expressed with the correct number of significant figures.

SHOW ALL YOUR WORK

a. $3.4 \times 10^{-5} \text{ mL} \rightarrow \text{L}$

m. $15 \text{ mm} \rightarrow \text{cm}$

b. $76.8 \text{ km} \rightarrow \text{cm}$

n. $45 \text{ m} \rightarrow \mu\text{m}$

c. $44.38 \text{ cm} \rightarrow \text{m}$

o. $45 \text{ g} \rightarrow \text{kg}$

d. $400 \text{ cm}^3 \rightarrow \text{mL}$

p. $45 \text{ g} \rightarrow \text{ng}$

e. $400 \text{ cm}^3 \rightarrow \text{m}^3$

q. $45 \text{ m} \rightarrow \text{mi}$

f. $1.8 \times 10^{-3} \text{ mL} \rightarrow \text{L}$

r. $100 \text{ yd} \rightarrow \text{m}$

g. $76.3 \text{ m} \rightarrow \text{mm}$

s. $16 \text{ in} \rightarrow \text{cm}$

h. $76.3 \text{ m}^3 \rightarrow \text{mm}^3$

t. $167 \text{ L} \rightarrow \text{ml}$

i. $2.75 \text{ mL} \rightarrow \text{L}$

u. $45 \text{ km/s} \rightarrow \text{m/s}$

j. $75 \text{ mi} \rightarrow \text{km}$

v. $45 \text{ km/s} \rightarrow \text{m/h}$

k. $15 \text{ mm} \rightarrow \text{m}$

w. $4.50 \text{ g/cm}^3 \rightarrow \text{g/mL}$

l. $7.6 \times 10^{-4} \text{ g} \rightarrow \mu\text{g}$

x. $3.00 \times 10^8 \text{ m/s} \rightarrow \text{mi/h}$

