

Name _____

Metric Conversions and Dimensional Analysis #2

Complete the following metric conversions:

1) $6.87\text{m} = ? \text{hm}$ _____ 4) $6.11\text{L} = ? \text{kL}$ _____

2) $2.6 \text{mL} = ? \text{dL}$ _____ 5) $2.52 \text{cg} = ? \text{mg}$ _____

3) $0.678 \text{dag} = ? \text{mg}$ _____ 6) $1.62\text{km} = ? \text{cm}$ _____

Complete the following metric-U.S. conversions: (1in=2.54cm 1L=1.06q 1kg=2.2lbs)

7) $492\text{cm} = ? \text{ft}$ _____ 10) $93.3 \text{fl.oz} = ? \text{dL}$ _____

8) $63.2\text{oz} = ? \text{hg}$ _____ 11) $54.5\text{yds} = ? \text{m}$ _____

9) $2.81 \text{miles} = ? \text{cm}$ _____ 12) $91.1 \text{cL} = ? \text{pints}$ _____

A little tougher....

13) $0.863 \text{miles/min} = ? \text{cm/s}$

14) $6.44 \text{lbs/gal} = ? \text{g/mL}$

15) $14.1\text{in}^2 = ? \text{m}^2$

16) $2.3\text{ft}^3 = ? \text{L}$

Word problems

- 17) You buy a car that gets an average of 26.2miles per gallon and drive it for ten years. Your average yearly mileage is 8532 miles, and the average price of gas was \$3.25 per gallon, then how much did it cost to drive the car for ten years?