Name _____

Metric Conversions and Dimensional Analysis #2

Complete the following metric conversions:

1) 6.87m = ? hm **__0.0687hm_**

2) 2.6 mL = ? dL **__0.026dL___**

3) 0.678 dag = ? mg **_6.78×10^{3}mg__**

4) 6.11L = ? kL **___6.11×10^{-3}kL___**

5) 2.52 cg = ? mg **___25.2mg_____**

6) 1.62km = ? cm **___1.62×10^{5}cm____**

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

7) 492cm = ? ft **__16.1ft_____**

8) 63.2oz = ? hg **__18.0hg___**

9) 2.81 miles = ? cm **__4.52×10^{5}cm__**

10) 93.3 fl.oz = ? dL **___27.5dL_____**

11) 54.5yds = ? m **___49.8m_____**

12) 91.1 cL = ? pints **__1.93 pints___**

A little tougher….

13) 0.863 miles/min = ? cm/s **2.31×10^{3}cm/s**

14) 6.44 lbs/gal = ? g/mL **0.776g/mL**

15) $14.1in^2$ = ? m^2 **$9.09 \times 10^{-3}m^2$**

16) $2.3ft^3$ = ? L **65L**

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?

$\$1.06 \times 10^{4}$