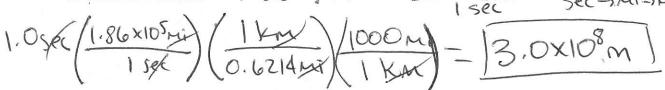
Dimensional Analysis Practice

Use dimensional analysis to answer each question. Record your solutions and notes in the spaces provided.

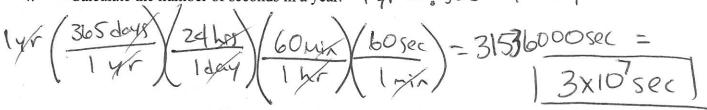
Find the number of centimeters in 1.00×10^2 yards

Determine the number of meters in 1.00 miles. Mi > km > M 2.

The speed of light is 1.86 x 10⁵ miles per second. How many meters will light (rate) travel in 1.0 seconds? 1.0 sec = ? M 1.86 x 10.5 miles per second. How many meters will light (rate) sec - miles per second. 3.



Calculate the number of seconds in a year. 14r = ? sec 4r - day > hus - min > sec.



- The density of mercury is 13.55 g/ml, and the density of gold is 19.32 g/ml. 6.
 - a) What is the density of mercury in kg/L? 9-kg, Ml->L

b) A 10.0 mL graduated cylinder is filled to 5.00 mL. A ring is placed in the graduated cylinder, and the water level rises to 5.15 mL. The ring is then dried and placed on a balance, and its mass is 2.8315g. Find the density of 展 V=5.15-5.00~L=0.15~L

$$D = \frac{2.83152}{0.15 \, \text{mL}} = 18.87666667 \frac{3}{\text{mL}} = 19000$$