



6. If a car's fuel economy in Mexico is rated 13.2 km/L, what is the rating in miles per gal (mile/gal)?

7. Using the metric prefix handout, perform the following conversions:

a. 25 L = ? GL

b. 0.8 mg = g

c.  $4.52 \times 10^{11}$  pm = ? m

d. 5.88 dL = ? fL

e. 8.08 Mm = ? nm

f.  $919 \text{ m} = ? \text{ Tm}$

g.  $2.1 \times 10^{53} \text{ Pg} = ? \text{ cg}$

8. An average diameter of a liver cell is 20 microns (microns are the same thing as micrometers). How many feet is this?

9. Florence Griffith Joyner (USA) set the current world record in the women's 100.0 m dash on July 16, 1988 running the distance in 10.49 s. What is her average speed in miles per hour?

10. A car is traveling at 82 km/hr.

a. What is this speed in miles/hr?

b. What is this speed in ft/sec?