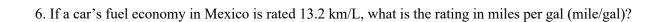
Name

Converting Practice #2

1. According to the Guinness Book of Records the heaviest baby ever born weighed 29.25 lbs. What was the baby's mass in milligrams? (Note $1 \text{ mg} = 0.001 \text{ g}$)
2. A room has a volume of 299 m³. What is the volume of the room in yd³?
3. The area of a table is 325 cm ² . What is the area of the table in square inches (in ²)?
4. The volume of the world's oceans are $1.37 \times 10^{9} \text{ km}^{3}$. What is the volume of the world's ocean in ft ³ ?
5. The density of platinum is 21.4 g/cm ³ . What is the density in pounds per cubic inch (lb/in ³)?



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

a.
$$25 L = ? GL$$

b.
$$0.8 \text{ mg} = g$$

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

d.
$$5.88 \text{ dL} = ? \text{ fL}$$

e.
$$8.08 \text{ Mm} = ? \text{ nm}$$

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1.	ノエノ	111		1 111

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?