Problem set - Metric measurements - 2

Date:
1 through 11. Show all of your work. You may
and one hundred centimeters in one meter. One

One liter is 1000 milliliters. Sixty seconds is one minute. Sixty minutes is one hour.

- 7. How many milliliters is a half liter?
- 8. How many seconds is twenty-two minutes?
- 9. How long does it take a pump with a rated capacity of 0.4 liters per minute to empty a 30l tank?
- 10. How many kilometers per hour is 2.5 meters per second?
- 11. How many meters per second is twelve kilometers per hour?

Temperatures in Celsius and Fahrenheit are related by the formulas

$$C = \frac{5}{9}(F - 32)$$

and

$$F = \frac{9}{5}C + 32$$

- 12. If the temperature is 52°F, what is the temperature in Celsius?
- 13. If the temperature is 14°C, what is the temperature in Fahrenheit?