## Problem set - Metric measurements

Name:	Date:
use a calculator and notes.	ons 1 through 11. Show all of your work. You may ser, and one hundred centimeters one meter. One
1. How many centimeters is 155mm?	
2. How many meters is 1280cm?	
o II	
3. How many centimeters is 1.2m?	
4. How many meters is 14km?	
F II .11:	
5. How many millimeters is one meter?	
6. How many centimeters is 3.12km?	

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

- 7. How many milliliters is a quarter liter?
- 8. How many seconds is 75 minutes?
- 9. How long does it take a pump with a rated capacity of 0.4 liters per minute to empty a 500l tank?
- 10. How many kilometers per hour is three meters per second?
- 11. How many meters per second is twenty-five 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 48°F, what is the temperature in Celsius?
- 13. If the temperature is 10°C, what is the temperature in Fahrenheit?