Many countries of the world use a Celsius thermometer to measure temperature. When we visit Canada or Mexico, we may need to convert their temperatures measured in degrees °C to ours measure in Fahrenheit degrees °F.

- 1. Water boils at 100°C or 212°F. When the temperature is -40°C it is also 40°F. Use this data to make a table with the left column labeled °C, and the right column labeled °F.
- 2. Make a graph of Fahrenheit against Celsius, plot the points in the table and connect the points. Does Fahrenheit increase as Celsius increases? Does Celsius increase as Fahrenheit increases?
- 3. What is the temperature in Fahrenheit when the temperature is 20°C?
- 4. When the temperature is 0°C Celsius, what is the Fahrenheit temperature?
- 5. What does the Celsius thermometer read if the Fahrenheit thermometer reads 14oF?
- 6. If Centigrade increases by 1 degree, how much will the Fahrenheit temperature increase?
- 7. What is the Celsius to Fahrenheit ratio? Write it as a decimal and a fraction.
- 8. What is the Fahrenheit to Celsius ratio? Write it as a decimal and a fraction.
- 9. What formula, F = f(C), will convert Celsius degrees to Fahrenheit degrees?
- 10. Where does the line cross the horizontal axis? What are the Celsius and Fahrenheit temperatures represented at this crossing?