Name: Key

1. Explain what significance the number 32 has in the formulas for converting between Fahrenheit and Celsius.

2. The hottest recorded temperature in the world was 134° Fahrenheit in Death Vally, California. What would this temperature be in Celsius?

$$C = \frac{1}{7}(F-32)$$

= $\frac{1}{7}(134-32)$
= $56.67°C$

3. The coldest temperature ever recorded in Canada was in Snag, Yukon in 1947. It was -63° Celsius, what would this be in Fahrenheit?

$$F = \frac{9}{5}C + 32 - 81.4°F$$

$$= \frac{9}{5}(-63) + 32$$

4. Scientists believe the average global temperature could increase by as much as 11.5° F by the year 2100, what is this in Celsius?

what is this in Ceisius?

$$C = \frac{3}{4}(F)$$

$$= \frac{3}{4}(11.5)$$

$$= 6.39° C$$

5. The average temperature in Fort Nelson is -0.7°C. The average temperature in Juneau, Alaska is 42°F, how much colder (in Celsius) is Fort Nelson?

temp in Junear = 42°F 42°F in Celsius

$$C = \frac{1}{7}(42-32)$$

$$C = \frac{1}{7$$