SECTION:

TEMPERATURE CONVERSIONS

Converting from Celsius to Kelvin:

Converting from Kelvin to Celsius:

Complete the following chart. Pay attention to significant figures!

°C	K		
0. °C			
	485.6 K		
100. °C			
	70 K		
-273 °C			
35 °C			
	3200 K		
-110°C			
	299 K		
511.14 °C			

Extension problems

The Fahrenheit and Celsius temperature scales have different size units and different zero points! Fahrenheit Celsius Conversions

$$T_F = 1.80 T_C + 32$$

$$T_C = \frac{T_F - 32}{1.80}$$

Problems	Show all	your	work in	the	space	provided!
-----------------	----------	------	---------	-----	-------	-----------

1. You're traveling in Europe and get sick. Your temperature is 39°C. What is your temperature on the Fahrenheit scale?

2. Pork is considered to be well done when its internal temperature reaches 160°F. What is this temperature on the Celsius scale?

3. The boiling point of nitrogen is -196°C. What is this temperature on the Fahrenheit scale?

4. Ray Bradbury wrote a book titled Fahrenheit 451. What is this temperature on the Celsius scale?

5. Express the temperature -40°F on the Celsius scale.

Answers 1. 1020F 2. 710C 3. -321 oF 4. 2530C