Name: _____

Period: ___

Temperature Conversions

$K = C + 273$ $\quad C = \frac{5}{9}(F - 32)$ $\quad F = \frac{9}{5}(C) + 32$

(1) Complete the following table.

Celsius (°C)	Fahrenheit (F)	Kelvin (K)
	100	
-35		
		298
	-62	
115.2		
		450
28.8		
	212	
		60.5

(2) What is the temperature in Fahrenheit of a cup of coffee that is 80 ˚C?

(3) What is the temperature in Celsius of a 400 F oven?

(4) What is the coldest temperature possible in Kelvin? What temperature in Fahrenheit and in Celsius is this equivalent to?

Answers:

(1)

Celsius (°C)	Fahrenheit (F)	Kelvin (K)
37.8	100	310.8
-35	-31	238
25	77	298
-52.2	-62	220.8
115.2	239.4	388.2
177	350.6	450
28.8	83.8	301.8
100	212	373
-212.5	-350.5	60.5

(2) 176 F (3) 204.4 ºC (4) –459.4 F and –273 ºC