

Example 1

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Example 1 (Parallel Exercise Group B #1)



$$T_F = \frac{9}{5}T_C + 32^\circ$$

$$T_C = \frac{5}{9}(T_F - 32^\circ)$$

$$T_K = T_C + 273$$

1) The Fahrenheit temperature reading is 98° on a hot summer day. What is this reading on the Kelvin scale?

$$T_F = 98^\circ$$

$$T_C = \frac{5}{9}(T_F - 32^\circ)$$

$$T_C = \frac{5}{9}(98^\circ - 32^\circ)$$

$$T_C = \frac{5}{9}(66^\circ)$$

$$T_C = 36.67^\circ\text{C}$$

$$T_K = T_C + 273$$

$$T_K = 36.67 + 273$$

$$T_K = 309.67\text{K}$$