

# The Kelvin Temperature Scale and The Square Root of Three

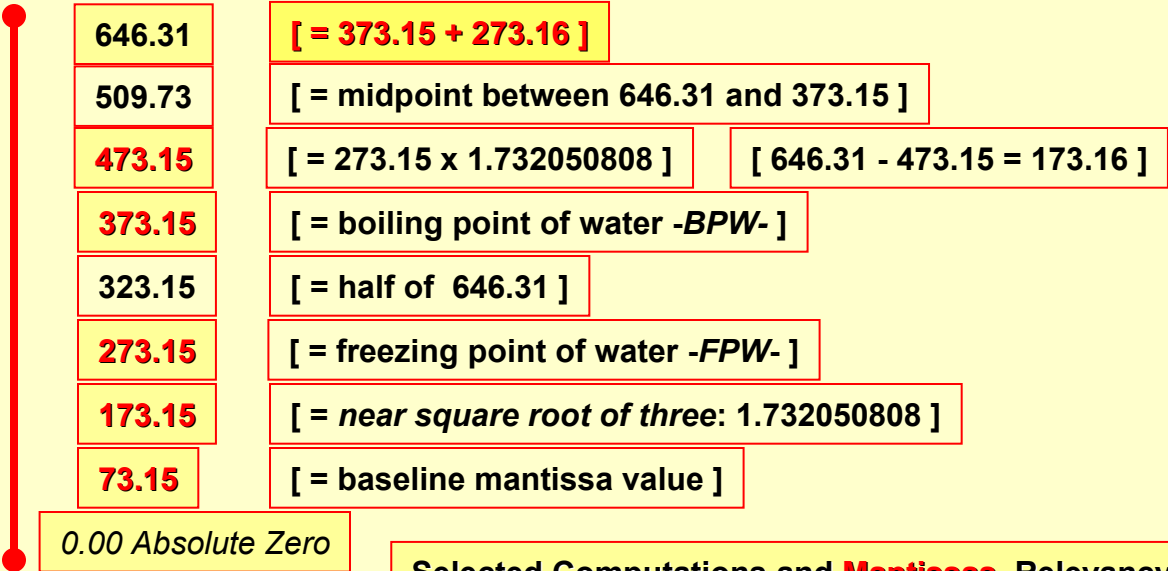
Charles William Johnson

In *The Earth/matrix Thermodynamic Temperature Scale*, the significance of the square root of three (**1.732050808**) has been illustrated. On this page, relationships of the Kelvin (K) scale temperature values to the square root of three are computed.  
 0.00K Absolute Zero | 273.15K Freezing Point of Water | 373.15K Boiling Point of Water

**1.732050808 x 373.15 K = 646.31**

**646.31 minus 373.15 equals 273.16**  
**Triple point of water: 273.16 K**

The square root of three (1.732050808) times the boiling point of water (373.15) yields a value (646.31) that when the BPW is subtracted thereof it then produces the value for the *triple point of water* (273.16) on the Kelvin scale. With that, the relationship of the square root of three is established as of other values on the Kelvin scale, whereby the temperature 73.15 appears as a baseline.



## Selected Computations and Mantissas, Relevancy of the Square Root of Three on the Kelvin Scale

646.31 / 509.73 = 1.267945775

646.31 / 473.15 = 1.365972736

646.31 - 473.15 = 1.7316

509.73 / 323.15 = 1.577378926

473.15 / 323.15 = 1.464180721

323.15 / 173.15 = 1.866300895 x 2 = 373.26

**373.15 / 273.15 = 1.366099213**

273.15 / 73.15 = 3.7341

1 / .267945775 = 3.72098407

1 / .365972736 = 2.732446789

1 / .7316 = 1.3668 x 2 = 2.7336

.577378926 x 3 = 1.7321

1.464180721 / 2 = .7321

.866300895 x 2 = 1.7326

**1 / .366099213 = 2.7315**

173.15 / 73.15 = 2.3663