

10) Is there a temperature at which measured value on Fahrenheit & Kelvin scales is numerically the same?

$$T_F = \frac{9}{5}(K - 273) + 32 = K$$

$$\frac{9}{5}K - 491 + 32 = K$$

$$\frac{4}{5}K = 459$$

$$K = \frac{459 \times 5}{4} = 574$$

(B)