

Name : _____

Converting between Celsius and Kelvin

Convert the following temperatures as indicated.

Example: Convert 60 °C to K.

$$\begin{aligned} K &= C + 273.15 \\ &= 60 + 273.15 = 333.15 \text{ K} \end{aligned}$$

Example: Convert 351 K to °C.

$$\begin{aligned} C &= K - 273.15 \\ &= 351 - 273.15 = 77.85 \text{ °C} \end{aligned}$$

1) _____ K = 119 °C 2) -79 °C = _____ K

3) _____ K = 183 °C

5) -2 °C = _____ °C

7) 333 K = _____ K

9) _____ K = 103 °C

11) Nancy melts the chocolate at a temperature of _____ K. Convert the melting temperature to _____ °C.

12) The Viking Lander recorded the highest surface temperature of planet Mars as 20 °C. Express this measure in Kelvin.

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Converting between Celsius and Kelvin

Convert the following temperatures as indicated.

Example: Convert 60 °C to K.

$$K = C + 273.15$$

$$= 60 + 273.15 = 333.15 \text{ K}$$

Example: Convert 351 K to °C.

$$C = K - 273.15$$

$$= 351 - 273.15 = 77.85 \text{ °C}$$

1) 392.15 K = 119 °C 2) -79 °C = 194.15 K

3) 81.85 K = 111.85 °C 4) 153 °C = 326.15 K

5) -2 °C = 271.15 K 6) 278.85 K = 6.85 °C

7) 333 K = 59.85 °C 8) 258.15 °C = 298.15 K

9) 116.85 °C = 390.15 K 10) 373.15 K = 100 °C

11) Nancy melts the chocolate at 119 °C. Convert the melting temperature to Kelvin.

622.85 °C

12) The Viking Lander recorded the highest surface temperature of planet Mars as 20 °C. Express this measure in Kelvin.

293.15 K

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