

Name: _____

Converting between Celsius and Kelvin

T2S1

Convert the following temperatures as indicated.

Example: Convert 33 °C to K.

$$\begin{aligned} K &= C + 273.15 \\ &= 33 + 273.15 = 306.15 \text{ K} \end{aligned}$$

Example: Convert 404 K to °C.

$$\begin{aligned} C &= K - 273.15 \\ &= 404 - 273.15 = 130.85 \text{ °C} \end{aligned}$$

1) $-21 \text{ °C} =$ _____ K 2) _____ $\text{K} = 166 \text{ °C}$

3) _____ $=$ _____ K

5) $290 \text{ K} =$ _____ $\text{°C} = 300 \text{ K}$

7) _____ $=$ _____ °C

9) $400 \text{ K} =$ _____ $\text{°C} = 285 \text{ K}$

11) If the temperature is _____ in Celsius, what is the temperature in Kelvin?

12) Nurse measured the temperature of little Noah as 37 °C. Write this temperature in Kelvin.

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Converting between Celsius and Kelvin

Convert the following temperatures as indicated.

Example: Convert 33 °C to K.

$$K = C + 273.15$$

$$= 33 + 273.15 = 306.15 \text{ K}$$

Example: Convert 404 K to °C.

$$C = K - 273.15$$

$$= 404 - 273.15 = 130.85 \text{ °C}$$

1) $-21 \text{ °C} = \underline{252.15} \text{ K}$ 2) $\underline{439.15} \text{ K} = 166 \text{ °C}$

3) $\underline{423.15} = \underline{229.15} \text{ K}$

5) $290 \text{ K} = \underline{10} \text{ °C} = 300 \text{ K}$

7) $\underline{-6.15} = \underline{76.85} \text{ °C}$

9) $400 \text{ K} = \underline{12} \text{ °C} = 285 \text{ K}$

11) If the temperature is 228 °C, what is the temperature in Celsius?

499.85 °C

12) Nurse measured the temperature of little Noah as 37 °C. Write this temperature in Kelvin.

310.15 K

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