

Name: _____

Converting between Celsius and Kelvin

T2S3

Convert the following temperatures as indicated.

Example: Convert 40 °C to K.

$$\begin{aligned}K &= C + 273.15 \\ &= 40 + 273.15 = 313.15 \text{ K}\end{aligned}$$

Example: Convert 295 K to °C.

$$\begin{aligned}C &= K - 273.15 \\ &= 295 - 273.15 = 21.85 \text{ °C}\end{aligned}$$

1) $-56 \text{ °C} =$ _____ K 2) _____ $\text{K} = -63 \text{ °C}$

3) _____ $\text{°C} = 299 \text{ K}$

5) $420 \text{ K} =$ _____ K

7) _____ °C

9) $8 \text{ °C} =$ _____ $\text{°C} = 367 \text{ K}$

11) The temperature of the fuel is _____ °C when the fuel is compressed in _____ K. Find the temperature in Kelvin?

12) On a sunny day, the inside temperature of a car parked outside was 315 K. Find the temperature in Celsius.

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