

Name: _____

Converting between Celsius and Kelvin

Convert the following temperatures as indicated.

Example: Convert 40 °C to K.

$$K = C + 273.15$$

$$= 40 + 273.15 = 313.15 \text{ K}$$

Example: Convert 295 K to °C.

$$C = K - 273.15$$

$$= 295 - 273.15 = 21.85 \text{ °C}$$

1) $-56 \text{ °C} =$ _____

K

2)

_____ K = -63 °C

3) _____

_____ °C = 299 K

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

= _____ K

7) _____

= _____ °C

9) $8 \text{ °C} =$ _____

_____ °C = 367 K

11) The temperature of a gas is 100 °C when the fuel is compressed in a cylinder.

What is 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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$$C = K - 273.15$$

$$= 295 - 273.15 = 21.85 \text{ °C}$$

1) $-56 \text{ °C} = \underline{217.15} \text{ K}$ 2) $\underline{210.15} \text{ K} = -63 \text{ °C}$

3) $\underline{461.15} \text{ °C} = 299 \text{ K}$

5) $420 \text{ K} = \underline{146.85} \text{ °C}$

7) $\underline{343.15} \text{ °C} = -19.15 \text{ °C}$

9) $8 \text{ °C} = \underline{281.15} \text{ °C} = 367 \text{ K}$

11) The temperature of a fuel is -19.15 °C when the fuel is compressed in Kelvin?

623.15 K

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

41.85 °C

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