

**Temperature Conversion**

ES1

Example: Convert 36 °C into Kelvin.

$$K = C + 273.15$$

Using this formula,  $K = 36 + 273.15 = 309.15$  K

**A) Convert Celsius into Kelvin**

1) 75 °C = \_\_\_\_\_ K

2) 18 °C = \_\_\_\_\_ K

3) 44 °C = \_\_\_\_\_ K

4) 68 °C = \_\_\_\_\_ K

5) 37 °C = \_\_\_\_\_ K

6) 92 °C = \_\_\_\_\_ K

7) 26 °C = \_\_\_\_\_ K

8) 50 °C = \_\_\_\_\_ K

Example: Convert 284 K into °C.

$$C = K - 273.15$$

Using this formula,  $C = 284 - 273.15 = 10.85$  °C

**B) Convert Kelvin into Celsius**

1) 341 K = \_\_\_\_\_ °C

2) 285 K = \_\_\_\_\_ °C

3) 356 K = \_\_\_\_\_ °C

4) 292 K = \_\_\_\_\_ °C

5) 316 K = \_\_\_\_\_ °C

6) 353 K = \_\_\_\_\_ °C

7) 307 K = \_\_\_\_\_ °C

8) 360 K = \_\_\_\_\_ °C

**Answer Key****Temperature Conversion**

ES1

Example: Convert 36 °C into Kelvin.

$$K = C + 273.15$$

Using this formula,  $K = 36 + 273.15 = 309.15$  K

**A) Convert Celsius into Kelvin**

1) 75 °C = **348.15** K

2) 18 °C = **291.15** K

3) 44 °C = **317.15** K

4) 68 °C = **341.15** K

5) 37 °C = **310.15** K

6) 92 °C = **365.15** K

7) 26 °C = **299.15** K

8) 50 °C = **323.15** K

Example: Convert 284 K into °C.

$$C = K - 273.15$$

Using this formula,  $C = 284 - 273.15 = 10.85$  °C

**B) Convert Kelvin into Celsius**

1) 341 K = **67.85** °C

2) 285 K = **11.85** °C

3) 356 K = **82.85** °C

4) 292 K = **18.85** °C

5) 316 K = **42.85** °C

6) 353 K = **79.85** °C

7) 307 K = **33.85** °C

8) 360 K = **86.85** °C