

## 2-2 Practice Problems

Convert the following Celsius temperatures to the Kelvin scale. Show all your work.

1.  $47^{\circ}\text{C} = \underline{\hspace{2cm}} \text{K}$

2.  $1000^{\circ}\text{C} = \underline{\hspace{2cm}} \text{K}$

3.  $-20^{\circ}\text{C} = \underline{\hspace{2cm}} \text{K}$

4.  $-100^{\circ}\text{C} = \underline{\hspace{2cm}} \text{K}$

Convert the following Kelvin temperatures to the Celsius scale. Show all your work.

5.  $212 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

6.  $32 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

7.  $4120 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

8.  $301 \text{ K} = \underline{\hspace{2cm}} ^{\circ}\text{C}$

Solve each of the following problems as directed. Show all your work.

9. Typical room temperature is  $20.0^{\circ}\text{C}$ . What is room temperature on the Kelvin scale?

10. Pure gold melts at  $1064^{\circ}\text{C}$ . What is the melting point of gold in kelvins?