

# Temperature Conversion Practice Quiz

Use the following information to help answer the questions below:

- The temperature in Kelvin (K) is equal to the temperature in Celsius plus 273
- The Rankine ( $^{\circ}\text{Ra}$ ) scale uses degrees that are the same size as the Fahrenheit scale, but it is an absolute scale (i.e.  $0^{\circ}\text{Ra}$  is absolute zero)
- On the Rømer ( $^{\circ}\text{R}\phi$ ) scale,  $7.5^{\circ}\text{R}\phi$  is the freezing point of water and  $60^{\circ}\text{R}\phi$  is the boiling point of water
- On the Réaumur ( $^{\circ}\text{Ré}$ ) scale,  $0^{\circ}\text{Ré}$  is the freezing point of water and  $80^{\circ}\text{Ré}$  is the boiling point of water
- On the Delisle ( $^{\circ}\text{D}$ ) scale,  $0^{\circ}\text{D}$  is the *boiling* point of water and  $150^{\circ}\text{D}$  is the *freezing* point of water

1. Convert 100. K to  $^{\circ}\text{C}$ .

2. Convert  $0.0^{\circ}\text{F}$  to  $^{\circ}\text{C}$ .

3. Convert  $0.0^{\circ}\text{F}$  to  $^{\circ}\text{Ra}$ .

4. Convert  $10.0^{\circ}\text{C}$  to  $^{\circ}\text{R}\phi$ .

5. Convert  $98.6^{\circ}\text{F}$  to  $^{\circ}\text{Ré}$ .

6. Convert  $451^{\circ}\text{F}$  to  $^{\circ}\text{D}$ .