PhysicsIn5.com (13.01) - Temperature Worksheet

- 1. Convert a temperature of 30° F to both Celsius and Kelvin
- 2. Convert a temperature of 80° C to both Fahrenheit and Kelvin
- 3. Convert a temperature of 50 K to both Fahrenheit and Celsius
- 4. A bowl of water is recorded as having temperature T. If the average kinetic energy of the individual water molecules is doubled, what would be the new temperature of the water?
 - a. 4T
 - b. 2T
 - c. Still T
 - d. ½ T
 - e. ¼ T
- 5. A bowl of water is recorded as having temperature T. If the average velocity of the individual water molecules is doubled, what would be the new temperature of the water?
 - a. 4T
 - b. 2T
 - c. Still T
 - d. ½ T
 - e. ¼ T
- 6. A glass of water sits at room temperature (20° C). What is the average kinetic energy of each water molecule in this glass?