1. Draw Figure 8.6. Make sure to include all labels.

2. Write the equations to convert from Fahrenheit to Celsius temperature scales.

3. Thermal energy is caused by a(n) _____ in temperature.

    a) increase   b) decrease   c) change   d) none of these

4. What is temperature?

5. A _____ is an instrument that measures the exact temperature.

6. In a liquid thermometer, the expansion of the liquid is related _____ to the increase in temperature.

    a) inversely   b) proportionally

7. How do digital thermometers work?

8. Absolute zero is the temperature where molecules are completely _____ with no movement at all.

    a) full   b) melted   c) intact   d) frozen

9. Absolute zero occurs at a temperature of

    a) 273° C b) -273° C c) 273° F d) -273° F

10. What is the "Kelvin" scale of measurement?

11. How do you convert from Celsius to Kelvin?

12. Describe the upper limit of temperature.