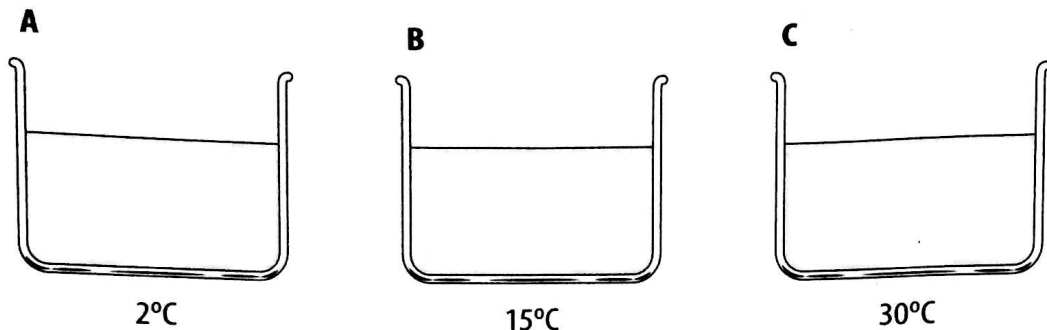


Directions: Use the illustration below to answer questions 1 through 3.



1. If you put your hand into container A and then into container B, which would you say is warm? Which is cool?  
\_\_\_\_\_
2. Now put your hand into C, then B. Now which is warm? Which is cool?  
\_\_\_\_\_
3. What is the problem in your description of B? What would be a more accurate way of describing B?  
\_\_\_\_\_

Directions: Correctly complete each sentence by underlining the best of the three choices in parentheses.

4. Molecules of a substance are in motion (only as a gas, only above the freezing point, all of the time).
5. Temperature is relative to the (kinetic, potential, electrical) energy of the molecules.
6. On the (Kelvin, Celsius, Fahrenheit) temperature scale, freezing is  $0^\circ$  (C, F, K).
7. On the (Kelvin, Celsius, Fahrenheit) temperature scale, water boils at  $212^\circ$  (C, F, K).
8. One liter of water at  $50^\circ\text{C}$  has (more, less, the same) kinetic energy as 2 liters of water at  $50^\circ\text{C}$ .
9. Thermal energy is a measure of the (kinetic, potential, potential and kinetic) energy of a substance.
10. 100 mL of water at  $20^\circ\text{C}$  has (more, less, the same) thermal energy than 500 mL of water at  $20^\circ\text{C}$ .

Directions: Answer the following question on the lines provided.

11. The temperature of a warm spring day might be  $75^\circ\text{F}$ . What is that in  $^\circ\text{C}$  and in K?  
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\_\_\_\_\_