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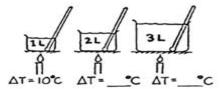
CONCEPTUAL Physics PRACTICE PAGE

Chapter 15 Temperature, Heat, and Expansion Measuring Temperatures

1. Complete the table:

TEMPERATURE OF MELTING ICE	°C	32°F	K
TEMPERATURE OF BOILING WATER	°C	21Z°F	K

 Suppose you apply a flame and heat one liter of water, raising its temperature 10°C.
If you transfer the same heat energy to two liters, how much will the temperature rise? For three liters? Record your answers on the blanks in the drawing at the right.



- 3. A thermometer is in a container half-filled with 20°C water.
 - a. When an equal volume of 20°C water is added, the temperature of the mixture is

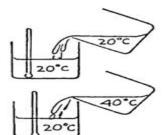
(10°C) (20°C) (40°C)

 When instead an equal volume of 40°C water is added, the temperature of the mixture will be

(20°C) (30°C) (40°C)

c. When instead a small amount of 40°C water is added, the temperature of the mixture will be

(20°C) (between 20°C and 30°C) (30°C) (more than 30°C)



- A red-hot piece of iron is put into a bucket of cool water. Mark the following statements true (T) or false (F). (Ignore heat transfer to the bucket.)
 - The decrease in iron temperature equals the increase in the water temperature.
 - The quantity of heat lost by the iron equals the quantity of heat gained by the water.
 - The iron and water both will reach the same temperature.
 - d. The final temper in the

