# Specific Heat Capacity Practice Problems

Number:

When 3.0 kg of water is cooled from 80.0°C to 10.0°C, how much heat energy is lost?

$$C_{P_1} = Q/m \cdot \Delta T$$
 = 879,0605  
=  $C_{P_1} \cup (m) \Delta T$  =  $(H_1 \otimes U)(3)(10-80)$ 

How much heat is needed to raise a 0.30 kg piece of aluminum from 30.°C to 150°C?

Calculate the temperature change when:

a) 10.0 kg of water loses 232 kJ of heat.  

$$232 \text{ kJ} = \frac{1600 \text{ J}}{1 \text{ kJ}} = 232000 \text{ J}$$
  
 $-232,000 \text{ J} = (418 \text{ k}) (10.0 \text{ kg}) \text{ kJ}$   
 $-232,000 = 418 \text{ k}0 \text{ AJ}$   
b) 1.96 kJ of heat are added to 500. g of copper.  
 $196 \text{ kJ} \cdot \frac{1000 \text{ J}}{1000 \text{ J}} = 1960 \text{ J}$   
 $196 \text{ kJ} \cdot \frac{1000 \text{ J}}{1000 \text{ J}} = 1960 \text{ J}$ 

196 KJ - 1000 J = 1960 J

4. 2.52 x 104 J of heat are added to 2.0 kg of mercury to reach a final temperature of 130°C. What was the initial temperature of the mercury?

2.5
$$2 \times 10^4 = (138)(2)(130 - T_i)$$
  
2.5 $2 \times 10^4 = 276(130 - T_i)$   
91.3 = 130 - Ti  
-38.7 = -Ti

# **Practice Specific Heat Problems With Answers**

**Victor M. Corman** 

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