

Problem 1.42. The specific heat capacity of Albertson's *Rotini Tricolore* is approximately $1.8 \text{ J/g}\cdot^\circ\text{C}$. Suppose you toss 340 g of this pasta (at 25°C) into 1.5 liters of boiling water. What effect does this have on the temperature of the water (before there is time for the stove to provide more heat)?