Answers

 $Q = mc\Delta T$, where Q = heat energy, m = mass, and $\Delta T =$ change in temp. Remember, $\Delta T = (T_{final} - T_{initial})$. Show all work and proper units.

 A 15.75-g piece of iron absorbs 1086.75 joules of heat energy, and its temperature changes from 25°C to 175°C. Calculate the specific heat capacity of iron.

$$C = Q = 1086.75 = 0.46 \text{ J/g}^{\circ}\text{C}$$

m(Tr-Ti) 15.75(175-25)

 How many joules of heat are needed to raise the temperature of 10.0 g of aluminum from 22°C to 55°C, if the specific heat of aluminum is 0.90 J/g°C?

$$Q = mC(T_1 - T_1) = 10.0g (0.90J/g^{\circ}C)(55-22) = 297 J$$

 Calculate the specific heat capacity of a piece of wood if 1500.0 g of the wood absorbs 67,500 joules of heat, and its temperature changes from 32°C to 57°C.

$$C = Q = \frac{67500 \text{ J}}{m(T_1-T_1)} = \frac{1.8 \text{ J/g}^{\circ}C}{(1500 \text{ g})(57-32)}$$

 100.0 g of 4.0°C water is heated until its temperature is 37°C. Calculate the amount of heat energy needed to cause this rise in temperature.

$$Q = mC(T_r-T_i) = 100g(4.184J/g^{\circ}C)(37 - 4) = 14000 J$$

 25.0 g of mercury is heated from 25°C to 155°C, and absorbs 455 joules of heat in the process. Calculate the specific heat capacity of mercury.

$$C = Q = 455 J = 0.14 J/g^{\circ}C$$

 $m(T_{i}-T_{i}) (25g)(155-25)$



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D. V. Widder

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