Exam 5 Part 2

You are expected to:

Write the equation that you are using.

If you are solving for something other than q, you must show the algebra.

When you plug in the known variables into the equation that you are using, you must include the units. Units are required in the answer.

The answers that are posted at www. AlexAnguiano.com are provided so that you can find and correct errors. Mr. A cares more about the presentation of your work.

1. The temperature of 40.0 grams of ethanol increases from 50.0 oC to 80.0 oC. How much heat (q) is absorbed by the ethanol? The specific heat for ethanol is 2.44 J/(g °C)

2. The temperature of a sample of a metal with a mass of 15.0 g is changed from 55.5 °C to 72.5°C when it absorbs 125 J of heat. Calculate the specific heat of the metal.

3. A 10.0 gram sample of pure gold absorbs 355 J of heat. Calculate the temperature change of the gold. The specific heat for gold is 0.129 J/(g °C)