Answer on question #57507,57554, Physics / Other

Question A 15.75-g piece of iron absorbs 1086.75 joules of heat energy, and its temperature changes from 25C to 75C. Calculate the specific heat capacity of iron.

Solution Specific heat is

$$c = \frac{Q}{m\Delta T} = \frac{1086.75}{15.75(75-25)} \approx 1380\, J/kg/K$$