**PHYSICS:**

Q = heat energy gained or lost, M = mass, c = specific heat capacity, T is temperature (in K (Kelvin))

**Q1: How much heat is gained by 300ml boiled from 20C.**

Information from question:

(Temperature values): (water boiling temperature)

(Temperature change): K

(Mass) m = 0.3 L = 0.3 kg

(Specific heat capacity of water) c = 4200 J kg-1 K-1

**Plugging into the formula:**

Be aware of scientific notation: 2.3 x 10^4 = 23000

Be aware of SI UNITS and know them. (Use Kg, L, m (SI UNITS) in formulas instead of g, ml, mm)

Ccopper = specific heat capacity of Copper

Cwater  = specific heat capacity of Water

This mean the change in the heat energy is proportional to the change in the mass.

Where k is some constant (number)