Physics 251 Homework 2

at

at a temperature of 35 C and Container B is at a temperature of 55 C.
1) Which container's particles have a higher average kinetic energy? Explain.
2) Which container has water with greater total kinetic energy? Explain.
3) If the water from each container is mixed, what is the final temperature of the 1 liter of water?
Now suppose container A has 1 liter of water at 10 C and container B has 0.876 liters of water at 50 C.
4) Which container's particles have higher average kinetic energy?
5) Which container has water with greater total kinetic energy? Explain.
6) If the water is mixed, what is the final temperature of the mixture? Explain.