•	A 150.0 g block of iron metal is cooled by placing it in an insulated container with a 50.0 g block of ice at 0.0 °C. The ice melts, and when the system comes to equilibrium the temperature of the water is 78.0 °C. What was the original temperature (in °C) of the iron?			Marks 4
	Data:	The specific heat capacity of liqu The specific heat capacity of soli The molar enthalpy of fusion of i	iid water is 4.184 J K ⁻¹ g ⁻¹ . d iron is 0.450 J K ⁻¹ g ⁻¹ . ice (water) is 6.007 kJ mol ⁻¹ .	
			Answer:	