	(Total for Question 12 = 4 marks)
	Maximum mass =
	initial temperature of milk = 4.0° C specific heat capacity of milk = $3900\mathrm{Jkg^{-1}K^{-1}}$ specific heat capacity of water = $4200\mathrm{Jkg^{-1}K^{-1}}$ specific latent heat of vaporisation of water = $2.3\times10^6\mathrm{Jkg^{-1}}$
	Calculate the maximum mass of milk that could be warmed to a temperature of 65 °C by absorbing 15 g of steam at 100 °C.
12	Latte is a type of coffee made with hot frothy milk. The milk is heated by pumping steam into it.