	(Total for Question 3 = 7 marks)		
	(b) Explain whether the assumption made in (a) is realistic.	(2)	
	(b) Explain whether the assumption made in (a) is realistic.		
	efficiency of energy transfer from the hand = 65%	(5)	
	mass of chicken = $0.875  kg$ specific heat capacity of chicken = $1770  J  kg^{-1}  K^{-1}$		
	(a) Deduce whether the data confirms that 8000 slaps would be sufficient.  Assume that no energy is transferred from the chicken to the surroundings.		
	In an investigation to test the claim, the effective mass of the hand was taken as $1.75 \mathrm{kg}$ and the speed of the hand just before impact with the chicken as $6.25 \mathrm{ms^{-1}}$ .		
	It was claimed that the energy transferred to a chicken in 8000 slaps would be sufficient to raise the temperature of the chicken from 23 °C to 165 °C.		
3	It was suggested on an online forum that it would be possible to cook a chicken by repeatedly slapping the chicken with one hand.		