1	Many household electrical devices have a 'standby' mode. This means that the appliance
	is in a state of low power consumption while not in use.

Three devices are in standby mode.

Appliance	Standby power in watts
Television	5
Computer	5
CD player	4

(a) (i) A homeowner goes away for a trip and is away for a total of 40 hours. Calcul energy wasted, in kilowatt-hours by leaving all the appliances on standby mothours.							
	Use the correct ed	quation from the equa	ition sheet.	[2 marks]			
	Energy	wasted =		kWh			
1 (a) (ii) The cost of electricity is 11p per kilo-watt hour.							
	Calculate the cost of leaving the appliances on for 40 hours. [1 mail						
		Cost =					
1 (b)	Here is some data about the television while switched on.						
		Power	200 watts]			
		Efficiency	80%				
		Usage per day	1 hour				
	The cost of electri	icity is 11p per unit.					
	Calculate the cost	t of watching the telev	rision over a time period o	f 1 week (7 days).			

[3 marks]

	Cost =	
1 (b) (i)	Calculate the cost of the energy wasted by the television over 1 week.	[2 marks]
	Cost =	
1 (b) (ii)	What happens to the wasted energy?	[1 mark]
		(Total 9 marks)
	End	
	Elia	
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