9.	In this question you must show all stages of your working. Solutions relying entirely on calculator technology are not acceptable.	
	A new type of car is released for sale.	
	The total number of this type of car sold, N , in a particular region, t months after the cars were released for sale, is modelled by the equation	
	$N = 5000 - 5000e^{-0.075t} \qquad t \geqslant 0$	
	Use the equation of the model to answer parts (a), (b), (c) and (d).	
	(a) Find the total number of cars sold in the first 3 months.	(2)
	Given that $N = 3000$ when $t = T$	
	(b) find the value of T giving the answer to 2 decimal places.	(3)
	(c) Find the rate of increase in the total number of cars sold when $t = 3$, giving the answer to 3 significant figures.	(2)
	After a marketing campaign, the total number of cars sold is expected to rise and have an upper limit of 6500	(2)
	(d) Using this information, suggest one refinement to the model.	(1)