8	The points $A$ and $B$ have coordinates $(1,5)$ and $(9,7)$ respectively.		
	(a) Find an equation of AB, giving your answer in the form $y = ax + b$ , where a and b are rational numbers.		
		(3)	
	The line $l$ is the perpendicular bisector of $AB$ .		
	(b) Find an equation of <i>l</i> .	(4)	
	The point C has coordinates $(3,q)$ . Given that C lies on $l$		
	(c) find the value of $q$ .		
		(2)	
	The line $l$ meets the $x$ -axis at the point $D$ .		
	(d) Find the exact area of the kite ACBD.	(4)	
		(4)	

Question 8 continued				



Question 8 continued				



Question 8 continued			
	otal for Question 8 is 13 marks)		

