6	A solid paperweight in the shape of a cuboid has volume 15 cm ³ . The paperweight has a rectangular base of length $5x$ cm and width x cm and a height of h cm. The total surface area of the paperweight is A cm ² .	
	(a) Show that $A = 10x^2 + \frac{36}{x}$	(3)
	(b) Find, to 3 significant figures, the value of x for which A is a minimum, justifying that this value of x gives a minimum value of A.	t
		(6)
	(c) Find, to 3 significant figures, the minimum value of A .	(2)
		(2)

14

Question 6 continued				



Question 6 continued				
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Question 6 continued		
	(Total for Question 6 is 11 marks)	

