8	A converging lens can be used to produce a real image on a screen.			
		A converging lens of focal length 15.0 cm is used to project an image of an illuminated object onto a screen. The object is a circle of diameter 4.0 mm and the image must be as large as possible on a screen of size 0.75 m by 1.25 m. Calculate the distance between the lens and the screen for this image to be displayed.		
			(3)	
		Distance between lens and screen =		
	(b)	A magazine article includes the statement:		
		If the distance from the lens to the screen is doubled, the brightness of		
		the image is halved.		
		Assess the validity of this statement.		
			(2)	
		(Total for Ouestion 8 =	5 marks)	