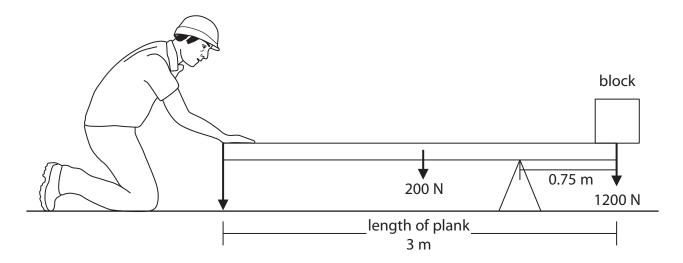
8 A man uses a uniform plank to lift a block.

He holds the plank horizontal.



The arrows on the diagram represent three forces on the plank.

(a) Complete the table to identify the missing force.

(1)

Force	Name of force	
F	force of man pushing down on the plank	
1200 N	weight of block	
200 N		

(b) (i) State the equation linking moment, force and perpendicular distance from the pivot.

(1)



T	TOTAL FOR PAPER = 60 MARKS		
(1	(Total for Question 8 = 8 marks)		
	force =	N	
(c) Calculate the force of the man pushing down on the p	lank.	(4)	
	oment =	Nm	
(ii) Calculate the clockwise moment of the block abou	it the pivot.	(2)	