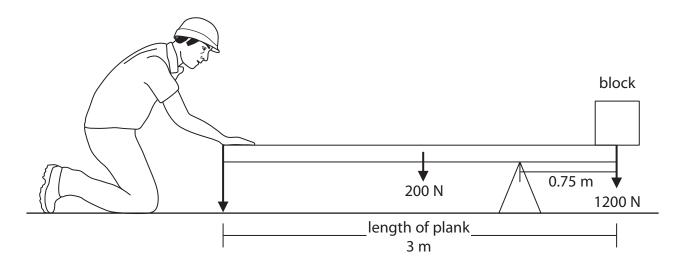
8 A man uses a uniform plank to lift a block.

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)



(ii) Calculate the clockwise moment of the block	about the pivot.	(2)
(c) Calculate the force of the man pushing down on	moment = the plank.	Nm
	force =(Total for Question	
	TOTAL FOR PAPER	R = 60 MARKS

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