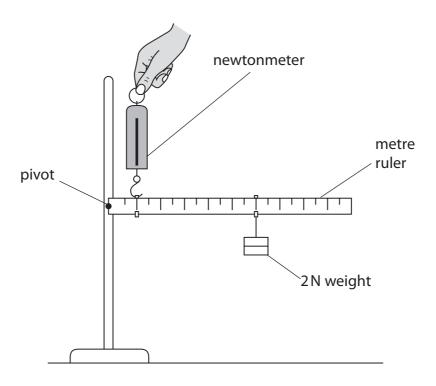
The diagram shows the apparatus used to investigate moments.



The 2 N weight is placed 60 cm from the pivot.

The newtonmeter is placed 10 cm from the pivot.

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

(1)

(ii) Calculate the reading on the newtonmeter.

Ignore the weight of the ruler.

(3)

reading = ......N



(b) The metre rule is replaced by an iron bar.	
The iron bar is 1 m long and has a weight of 10 N.	
The newtonmeter and the 2 N weight stay in their original position.	
Explain how this change affects the reading on the newtonmeter.	
	(3)
(Total for Question 3	= 7 marks)