

**CXC PAST PAPER MOMENT QUESTIONS**

**PHYSICS**

4. (a) (i) Define the 'moment of a force'.  
(ii) Draw a diagram to illustrate the action of a force multiplier lever.  
(iii) Explain the operation of a force multiplier lever. (6)  
(b) Figure 3 shows a wheelbarrow and stones with a total mass of 43 kg. The wheelbarrow is in equilibrium with two of the three forces acting on it shown in Figure 3.

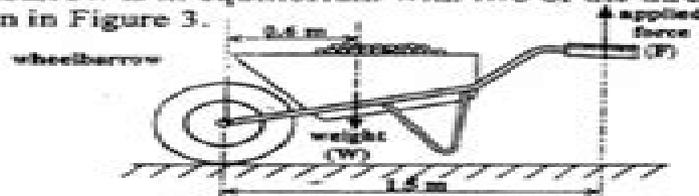


Figure 3

- (i) Identify the nature and point of action of the third force acting on the wheelbarrow. Write down an equation showing the relationship between the THREE forces.  
(ii) Calculate  
(a) the weight,  $W$  (see Figure 3)  
(b) the value of the applied force,  $F$  (see Figure 3).  
[acceleration due to gravity,  $g = 10\text{ms}^{-2}$ ] (9)  
**(Total 15 marks)**

JUNE 2008 P2 Q4

- 3(a) Write down the formula that defines the moment of a force, giving the meaning of EACH symbol and the unit in which it is usually expressed.  
.....  
.....  
(4 marks)
- (b) State the Principle of Moments.  
.....  
.....  
(2 marks)
- (c) Security guard posts in the Caribbean are usually equipped with a boom and counterweight arrangement as shown in Figure 2. It allows the security guard to use a relatively small force to raise the heavy boom.

# 2013 Cxc Past Paper Physics January

**Christian G. Meyer**



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