

Prelab Questions

These questions need to be completed before entering the lab. Please show all workings.

Marker's Initials

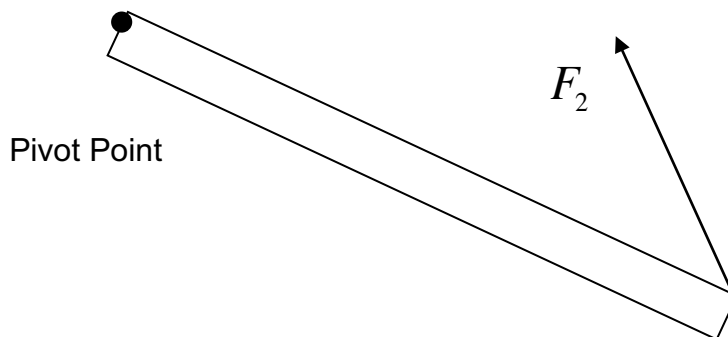
Prelab 1

In the diagram below, draw the lever arm l_{F_1} for the force F_1 . State whether the torque is positive or negative.



Prelab 2

Draw the lever arm l_{F_2} for the force F_2 . State whether the torque is positive or negative.



STAPLE YOUR PRE-LAB TO THIS PAGE

Laboratory Worksheet**Name and Student Number:** _____**Partner** _____**Date:** _____**Table 1:**

	Value	Uncertainty	Units
Position of CG			
Mass			
Weight			

*(space for calculations)***QUESTION 1:**

Table 2:

	Value (units)	Uncertainty (units)
l_{10}		
l_{20}		

QUESTION 2:**QUESTION 3:****QUESTION 4:**

a)

b)

QUESTION 5:

QUESTION 6:

QUESTION 7:

QUESTION 8:

QUESTION 9:

QUESTION 10:

a) $\tau_W =$

b) $\tau_T =$

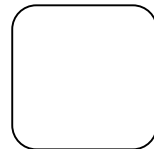
QUESTION 11:

$$l_T =$$

$$l_W =$$

TABLE 3:

T_{avg} (enter unit)	Std. Dev. (enter unit)	N (samples)

QUESTION 12:**CHECKPOINT:** Instructor Initial**QUESTION 13:****QUESTION 14:**

$$\tau_T =$$

QUESTION 15:

$$\tau_W =$$

QUESTION 16:

$$\sum \tau = \tau_T + \tau_W + \tau_N =$$

QUESTION 17:

QUESTION 18: