

Physics 10 L (Final)

Wednesday Afternoon, Fall 2003

On the table, an experiment was set-up to demonstrate. Please answer the following questions based upon the set-up on the table.

<I>. What is the title of the experiment?

<II>. What is the objective of such experiment?

<III>. What are the important equipments in this experiment?

<IV>. Please do the calculations and complete the following data table.

**Data
Table:**

Trial	f	Do	$(D_I)_{\text{calc}}$	$(D_I)_{\text{meas}}$	% diff	$(\text{Mag})_{\text{calc}}$	$(\text{Mag})_{\text{meas}}$	$2Y_I$	$2Y_o$	% diff
1	10cm	30cm		14.6cm				1.5cm	3.05cm	
2	10cm	30cm		14.55cm				1.5cm	3.05cm	
3	10cm	20cm		19.6cm				3.2cm	3.05cm	
4	10cm	20cm		19.5cm				3.2cm	3.05cm	
5	10cm	15cm		28.9cm				6.3cm	3.05cm	
6	10cm	15cm		29.4cm				6.3cm	3.05cm	
7	10cm	40cm		13.15cm				1cm	3.05cm	
8	10cm	40cm		13.3cm				1cm	3.05cm	