Name:_____ Lab Date:_____

Partner:_____

Worksheet 3: Lenses

Part II: Distant Object (Exit Sign)	
Quantity	*Value*
f (mm)	±
Part III: Varying Positions	
Object height (direct measurement) h_o (cm)	±
Plot 1: slope of $(d_o \cdot d_i)$ vs $(d_o + d_i)$	± ( )
Plot 1: intercept of $(d_o \cdot d_i)$ vs $(d_o + d_i)$	± ( )
Plot 1: f (mm)	±
Plot 2: slope of (h_i) vs $(-d_i/d_o)$	±
Plot 2: Object height h_o (cm)	±

You now have two measurements of f and two measurements of h_o, none of which are perfect. Based on these, what do *you* think f and h_o, really are? Justify your answer, be quantitative, and include uncertainties.