Name:_____ Lab Date:_____

Partner:_____

Lab 2: Interference and Diffraction of Light

Part I: Single Slit	
Quantity	*Value*
D (m)	±
a (mm)	±
Slope of y vs m graph (μm)	±
Computed λ from slope (nm)	±
Part II: Double Slit	
D (m)	±
d (mm)	±
Slope of y vs n graph (μm)	±
Computed λ from slope (nm)	±

You now have two measurements of λ, neither of which is perfect. Based on these, what do *you* think λ really is? Justify your answer; also, be quantitative, and include an uncertainty.