Name:		Period:
IB Data	Lab Practice: Practice with Max/Min Slones Graphing (Page	ge 11 IB Study Guide: Problem 9)

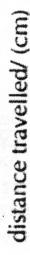
 An object rolls from rest down an incline plane. The distance traveled by the object was measured at seven different times. A graph was constructed of the distance traveled against the time taken squared with error bars.

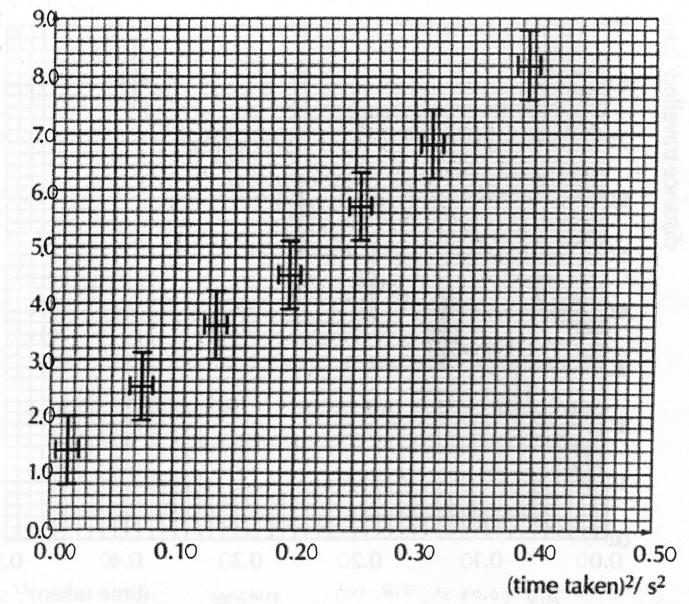
Note: Distance was measured to have an error of +/-0 .5 cm Time squared was determined to have an error of +/-0 .01 sec2

Your calculations should reflect the correct number of significant digits in the data.

Add a best fit line, and determine its slope to the correct number of significant digits(remember the rules we covered earlier about this)

Add a max imum slope line, and determine it's slope Add a minimum slope line, and determine it's slope





Name: _		Perlad:			Period:	
IB Data La	ab Practice	e: Practice with Max/I	Min Slopes Graphii	ng (Page 11 IB Study		9)
se sq Note: Dist	even differ Juared with tance was ared was d	olls from rest down and ent times. A graph we hars. measured to have an etermined to have an ould reflect the corre	as constructed of to error of +/-0 .5 cr n error of +/-0 .01	the distance travele $3.6\pm$ $3.6\pm$ $3.6\pm$	d against the times 2 2 2 2	s measured at e taken sigfigs should have sigfigs a sig figs
ru Ad	les we cov dd a max ir	t line, and determine ered earlier about th num slope line, and c um slope line, and de	is) letermine it's slope	apout this) to and determine	nificant digits(ren MAX BEST M.W	member the $(0.37 s^2, 8.2 cm)$ $(0.37 s^2, 7.8 cm)$ $(0.37 s^2, 7.3 cm)$
	9.0					
	7.0					Be8757 47=
3	6,0					7.8-1.6cm 0:37:03
-	5.0					= 18.2550 = 18cm
	4.0					
4	3.0					
	2.0					
	0.0					
08.0	0.00	0.10	0.20	0.30	0.40	0.50
		MIN (0.03 52, BEST (0.03 52, MAX (0.03 52,	1.6 cm)	MINShape 4y 7.3-2.7 4x 0.370	(time take	slope 8,2-1.2cm 37-03s2
		+ 3 cm	Inde Only	= 15 cm	= 8	10. CM