

Name _____ Period _____

College Prep Chemistry of the Earth System

Assignment 0G – Errors and Uncertainty in Lab

20 Points

Complete the following questions based on the in class discussion and presentation

Define Error	Define Relative Error
Define Random Error	Define Systematic Error
Define Positive (+) Error	Define Negative (-) Error

Label each error described as random or systematic error

Error Description	Error Type (Random or Systematic)	Error Description	Error Type (Random or Systematic)
Spilled liquid onto table		Length changes when ruler slips on table	
Balance changes slightly during measurement		All solid not transferred during experiment	

Calculate the relative error for the following measurements

Known Value	Experimental Value	Known Value	-	Experimental Value	=	Relative Error (RE)
32.4g	31.5g		-		=	
0.928m	1.129m		-		=	
92.4°C	87.4°C		-		=	
2.38L	2.80L		-		=	