Name _____ Period _____

College Prep Chemistry of the Earth System

Assignment 0O – Unit 0 Calculation Review   30 Points

Calculate the relative error for the following measurements

Known Value	Experimental Value		Known Value	-	Experimental Value	=	Relative Error (RE)
49.4g	45.1g			-		=	
1.30cm	1.45cm			-		=	

Solve the following problems based on the measurements above. For addition and subtraction round to same decimal place as measurements.

45.60g	+	23.6g
	+	=

0.420mL	-	0.21mL
	-	=

23.4g	•	132.59g
	•	=

235.2g	/	129.4mL
		=

Solve each problem, writing the equation for each variable given

Density	$D = \dfrac{m}{v}$	Mass	$m =$	$D \bullet v$	Volume	$v = \dfrac{m}{D}$

$D = 1.59g/mL$, $v = 194.2mL$, find mass (g)			$m = 92.5g$, $v = 120.4mL$ find Density (D)	
Equation			Equation	
D =		v =	m =	v =
m = (*Work*)			D = (*Work*)	
Mass (*m*) =			Density (*D*) =	