

Name _____ Period _____

College Prep Chemistry of the Earth System

Assignment 0P – Unit 0 Review – Introduction to Chemistry

20 Points

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

$$\frac{a}{a} = 1 \quad \frac{a}{b} = \frac{a}{b}$$

Add or Subt
Rnd to least # after dec
Units stay the same

91.59g + 35.2g (2) (1) ← Rnd to 1 after		1.82L x 23.134L	
Show Work Here		Show Work Here	
Unrounded + Unit	Rounded + Unit	Unrounded + Unit	Rounded + Unit

Mult or Div
Rnd to 2 of less after dec.
XX+
X
Don't Rnd

Solve each problem, writing the equation for each variable given

$$a \times a = a^2$$

Density	$D = \frac{m}{v}$	Mass	$m = D \cdot v$	Volume	$v = \frac{m}{D}$
D = 1.75g/mL, v = 134.29mL, find mass (g)			m = 481.2g, v = 295.24mL find Density (D)		
Write Equation from above				Equation	
D =		v =		m =	v =
m = (Work)				D = (Work)	
Mass (m) =				Density (D) =	

Show Units!

← Rnd Answer (2 pl. after)

D = 4.18g/mL, m = 42.4g, find volume (mL)					
Equation					
D =		m =			
v = (Work)					
	Volume (mL) =				

Metric Prefixes Conversion Chart

Prefix	micro	milli	centi	base	kilo	Mega
Letter symbol	μ	m	c	----	k	M
Conversion	1000000	1000	100	1	0.001	0.0000001

Convert the following measurements from one prefix to another using the charts provided

copy

Convert 395.2g to mg

>	*	**
mass (mg)	**	

Don't Round!

length (km)		

copy

Convert 0.239kg to mg

<i>Prefix</i> $\swarrow$ $\searrow$ Unit	<i>unit</i> ← <i>base</i> = 1
Look at chart!	Must show conv. +
mass (g)	units + answer!

No base unit!

Convert 382.5mm to cm

Length (cm)		

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Unit 0 Review Cheat Sheet

You may use this section to add additional notes to use on the Unit 0 Test. No additional notes and information may be used on the test.

Information from Multiple Choice