

Name \_\_\_\_\_ Period \_\_\_\_\_

College Prep Chemistry of the Earth System

Assignment 1I – Average Atomic Mass (*Part I*)

20 Points

*Answer the following questions based on the in class notes*

Define Fractional Abundance	Define Ratio

*Calculate the average values for the following situations*

A local ice cream shop sells four sizes of ice cream sundaes

Size	Small	Medium	Large	XL
Cost	3.00	4.50	6.00	7.50
% Abund	10.1%	42.4%	39.2%	8.3%
Frac* Abund	0.101	0.424	0.392	0.083

\*Divide by 100%

Size	Cost	X	Frac Abundance	=	Ratio
Small					
Medium					
Large					
XL					

Calculate the average selling price for a sundae at the ice cream shop

Ratio Small	Ratio Medium	Ratio Large	Ratio XL	Average Sundae Cost

A local pizza shop sells four sizes of pizza

Size	Small	Medium	Large	XL
Cost	10.00	13.00	15.00	19.00
% Abund	5.0%	60.0%	27.0%	8.0%
Frac* Abund	0.050	0.600	0.270	0.080

\*Divide by 100%

Size	Cost	X	Frac Abundance	=	Ratio
Small					
Medium					
Large					
XL					

Calculate the average selling price for a pizza at the pizza shop

Ratio Small		Ratio Medium		Ratio Large		Ratio XL		Average Pizza Cost
	+		+		+		=	

Student Attendance was recorded and tardy time was shown below

Size	On Time	Short Late	Med. Late	Very Late
Time	0min	1min	3min	5min
% Abund	82.4%	14.2%	2.4%	1.0%
Frac* Abund	0.824	0.142	0.024	0.010

\*Divide by 100%

Size	Cost	X	Frac Abundance	=	Ratio
On Time					
Short Late					
Medium Late					
Very Late					

Calculate the average time for a student late to class

Ratio Small		Ratio Medium		Ratio Large		Ratio XL		Average Late Time
	+		+		+		=	