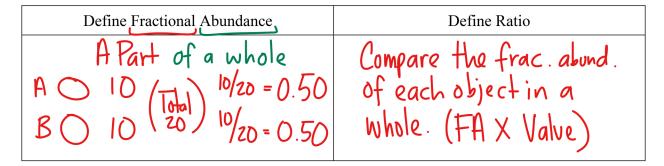
College Prep Chemistry of the Earth System

Assignment 1I – Average Atomic Mass (*Part 1*) In Class Example



Calculate the average values for the following situations

A local coffee shop sells four sizes of coffee during breakfast

Size	Small	Medium	Large	XL					
Cost	2.50	4.00	5.50	7.00					
% Abund	1.1%	58.3%	15.2%	25.4%					
Frac* Abund	0.011	0.583	0.152	0.254					
*Divide by 100% \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\									
$\frac{1.1/b}{100\%} = 0.01$									

Size	Cost	X	Frac Abundance	=	Ratio	
Small	2.50	·(()	0.01	=	0.027	5
Medium	4.00)>	0.58	<u>3</u> -	=2.332	2
Large	5.5	$\langle \rangle$	0.15	2	-0.83	0
XL	7.00))	0.25	4=	- 1.778	

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

Ratio Small		Ratio Medium		Ratio Large		Ratio XL		Average Coffee Cost	Rnd to	
0.0215	+	2.332	+	0.836	+	1.778	=	497	Zafter	1
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