

Name _____ Period _____

Freshmen Transition

Assignment 1I – Average Atomic Mass (Part 1)

20 Points

Answer the following questions based on the in class notes (Complete with Part 2)

Define Average Atomic Mass
Define Percent Abundance
How is atomic mass and average atomic mass related to each other?
How does percent abundance show us the stability of isotopes?

Calculate the average mass for the following situations

$$\text{Frac. Ab} = \text{Cost} \times (\% \text{ Sold}/100)$$

A local ice cream shop sells the following sizes of ice cream sundaes

Size	Small	Medium	Large	XL
Cost	3.00	4.50	6.00	7.50
%Sold	10.1%	42.4%	39.2%	8.3%

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

Size	Cost	% Sold	Frac. Ab
Small			
Medium			
Large			
XL			

$$\text{Frac. Ab} = \text{Cost} \times (\% \text{ Sold}/100)$$

A pizza shop sells the following sizes of pizzas in their restaurant

Size	Small	Medium	Large	XL
Cost	10.00	13.00	15.00	19.00
% Sold	5%	60%	27%	8%

Calculate the cost of a pizza at the restaurant

Size	Cost	% Sold	Frac. Ab
Small			
Medium			
Large			
XL			

$$\text{Frac. Ab} = \text{Cost} \times (\% \text{ Stud}/100)$$

Students attendance was recorded and tardy time was shown below

Size	On Time	Short Late	Medium Late	Very Late
Time	0min*	1min	3min	5min
% Stud	82.4%	14.2%	2.4%	1.0%

*On Time

Calculate the average time late for students in Swager's Chemistry Class

Size	Time	% Stud.	Frac. Ab
On Time			
Short Late			
Medium Late			
Very Late			