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Open

Calculating Average Atomic Mass Worksheet

Name _____

1. The word "average atomic mass" is a _____ average, and so is calculated differently than a "simple" average.

Mass 11.1.1 calculation

2. The element boron has naturally occurring isotopes in relative amounts of 8.01% and 91.99%. The relative abundances and atomic masses are 10.0129 amu and 11.0093 amu, respectively. Calculate the average atomic mass of boron.

Isotope	Abundance	Mass
Boron-10	8.01%	10.0129
Boron-11	91.99%	11.0093
Average atomic mass		

3. Calculate the average atomic mass of carbon if 98.89% of all carbon atoms have a mass of 12.000 amu, 1.10% have a mass of 13.003 amu, and 0.0111% have a mass of 14.003 amu.

Isotope	Abundance	Mass
Carbon-12	98.89%	12.000
Carbon-13	1.10%	13.003
Carbon-14	0.0111%	14.003
Average atomic mass		

4. The four isotopes of boron shown below are found in nature by their relative masses (percentage of all isotopes). Using the following data, first calculate the approximate atomic mass of an isotope, then use the relative atomic mass to find the average atomic mass of the element. Finally, calculate the average atomic mass of boron.

Isotope	Relative Atomic Mass	Percentage
^{10}B	10.0129	19.9%
^{11}B	11.0093	80.1%

Isotope	Relative Atomic Mass	Percentage
^{10}B	10.0129	19.9%
^{11}B	11.0093	80.1%

Name _____ Date _____

Calculating Atomic Mass

Directions: The table below shows average grades by category for John, a Chemistry student. In MP1, John always got his homework (he copied off his friend's paper, but didn't bother reading the book since it didn't "count" for a grade). In MP2, John decided to start reading the book and doing his own homework, so now it would make a difference in his grade. Calculate John's final grade for MP1 and MP2 to see if his improved study habits made a difference.

Category	Percent of Grade	Average for MP1	Average for MP2
Homework/Classwork	10	100	100
Lab	20	80	90
Quizzes	10	75	84
Tests	40	62	80
Project	10	95	95

1. Calculate John's final grade for MP1.
2. Calculate John's final grade for MP2.

Calculating Average Atomic Mass

Directions: Use the information in the table below to answer questions 3 & 4.

Isotope	Mass (amu)	Percent Abundance
Strontium-84	83.9134	92.1%
Strontium-86	85.9092	5.1%
Strontium-87	86.9089	2.8%

3. What would the percent abundance of Strontium-87 be? Add it to the table.
4. Calculate the average atomic mass of an atom of Strontium.

Directions: Use the information in the table below to answer questions 5 & 6.

Isotope	Mass (amu)	Percent Abundance
Silicon-28	27.9769	92.2%
Silicon-29	28.9765	4.7%
Silicon-30	29.9738	3.0%

5. Look over the data, and estimate the value of the average before you begin the calculation. Will the weighted average be closer to 28, 29, or 30?
6. Calculate the average atomic mass of an atom of Silicon.

Name _____ Date _____

Reading Chemical Symbols



1. The mass number is equal to the sum of which two particles?
2. What does the atomic number equal?
3. What information does the notation above give you about the subatomic particles of the atom or ion?

For each of the chemical symbols below, write the number of protons, neutrons, and electrons.

$^{12}_6\text{C}$	$^{13}_6\text{C}$	$^{14}_6\text{C}$
4 Protons _____ Neutrons _____ Electrons _____	5 Protons _____ Neutrons _____ Electrons _____	6 Protons _____ Neutrons _____ Electrons _____
$^{52}_{24}\text{Cr}$	$^{52}_{24}\text{Cr}^{+2}$	$^{53}_{24}\text{Cr}$
8 Protons _____ Neutrons _____ Electrons _____	8 Protons _____ Neutrons _____ Electrons _____	10 Protons _____ Neutrons _____ Electrons _____
$^{147}_{78}\text{Pt}$	$^{197}_{79}\text{Au}$	$^{207}_{83}\text{Bi}$
12 Protons _____ Neutrons _____ Electrons _____	13 Protons _____ Neutrons _____ Electrons _____	14 Protons _____ Neutrons _____ Electrons _____
$^{23}_{11}\text{Na}^{+1}$	$^{24}_{12}\text{Mg}^{+2}$	$^{16}_8\text{O}^{-2}$
11 Protons _____ Neutrons _____ Electrons _____	12 Protons _____ Neutrons _____ Electrons _____	8 Protons _____ Neutrons _____ Electrons _____

Name _____ Date _____

Calculating Average Atomic Mass

Answer the questions below. For each average atomic mass question, calculate the average atomic mass for the element based on the data given. Show your work in the space on the right and write your answer on the line. You cannot get full credit unless you show your work on the right side of the page.

1. What is the difference between the masses of an element and another isotope of the same element?
 2. If isotope #1 has a percent abundance of 25% and isotope #2 has a percent abundance of 75%, the average atomic mass will be closer to which isotope's mass?
 3. What is the average atomic mass for the element hydrogen, H? The proportion of the stable isotopes found in the environment is shown below.
- | Isotope | ^1_1H | ^2_1H |
|-------------------|----------------|----------------|
| Percent abundance | 91.75% | 5.85% |
4. What is the average atomic mass for the element potassium, K? The proportion of the stable isotopes found in the environment is shown below.
- | Isotope | $^{39}_{19}\text{K}$ | $^{40}_{19}\text{K}$ | $^{41}_{19}\text{K}$ |
|-------------------|----------------------|----------------------|----------------------|
| Percent abundance | 93.258% | 0.012% | 6.730% |

Pages designed for easy scaffolding. Each page builds on the previous page's skills.

Calculating average atomic mass

A. The element copper has naturally occurring isotopes with mass numbers of 63 and 65. The relative abundance and atomic masses are 69.2% for mass = 62.93amu, and 30.8% for mass = 64.93 amu. Calculate the average atomic mass of copper.

B. Calculate the atomic mass of bromine. The 2 isotopes of bromine have atomic masses and relative abundance of 78.92 amu (50.69%) and 80.92 amu (49.31%)

C. Neon has 2 isotopes. Neon-20 has a mass of 19.992 amu and neon-22 has a mass of 21 amu. In any sample of 100 neon atoms, 90 will be neon-20 and 10 will be neon-22. Calculate the average atomic mass.

D. What is the atomic mass of silicon if 92.21% of its atoms have mass 27.977 amu, 4.70% have mass 28.976, and 3.09% have mass 29.974 amu?

Name _____ Class _____
Period _____ Date _____

Atomic Structure Quiz

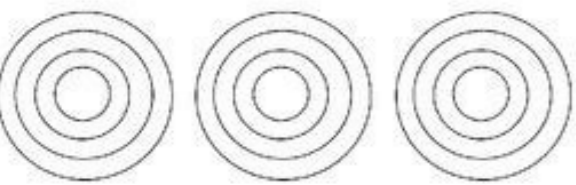
1. Label the following diagram of an atom from the periodic table. Use the following labels: atomic mass, symbol, atomic number, atomic name



2. Fill in the blanks with the values for the following atoms:

3 F Fluorine 18.998	7 N Nitrogen 14.007	11 Na Sodium 22.989
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of protons = _____ # of neutrons = _____ # of electrons = _____



Calculating average atomic mass worksheet answer key. Honors chemistry calculating average atomic mass worksheet. Calculating average atomic mass worksheet pdf. Calculating average atomic mass worksheet answers. Calculating average atomic mass worksheet doc. Chapter 5 calculating average atomic mass worksheet answers. Simulation isotopes and calculating average atomic mass worksheet answers. Calculating average atomic mass worksheet three isotopes of silicon occur in nature.

Since fat conducts less electricity than the muscle, the current can measure the amount of body fat you don't have. You also need to enter your height, weight, gender and age. Abundance of ¹⁰⁵B is 20.0%. What's the anatomical abund of ¹¹⁵B and the abund of ¹¹⁵B? A resonance uses strong hands to take an image of the muscles. When you are not placed in a magnetic resonance machine, the magnetic field briefly reorganizes your body. A mol 84.0 g HF (20.01 g/mol) The 20.0 g H₂O response represents the smallest number of moles, meaning the smallest number of moles of mol present. Generally, 10 to 35 percent of your daily calories should come from non-food sources. The most accurate are all expensive and there is a lot of reliable data that proves its accuracy. By eating whole foods such as vegetables and eggs, you can't help your muscles stay healthy and strong. Muscle mass is a part of your lean body mass. PROBLEM Compare 1 mole of H₂, 1 mole of O₂ and 1 mole of F₂. Examples of foods with a high protein content do not include: poultry fish nuts You also need enough carbohydrates to feed your muscles. 79.90 amu response; This corresponds to the value in the PERI tip table PROBLEM The abund ratio of ¹⁸⁰:¹⁶⁰ in some meteorites is larger than that used to calculate the mean mass of the day of the oxygen on earth. If are training two or more times a week, carbohydrates should make up at least 50 percent of your daily calories. Moreover, the adequate intake of fat, vitamins and minerals is necessary for muscle building. It is which has the greatest mass? It includes: muscular muscular muscle though, when people talk about muscle mass, they are typically typically etalualac of yaw etarucca tsom eht IRM A e na teGezis elcum tnuocca otni ekat IA mod dna stnemersuem ecnerfmucric eHT ytiliba laciSyhp ruoy tceotrp ssol elcum nwod wols uoy nac, ssam elcum ghgh evah uoy ega ta fi tub .03 snigeb , Ainepocras Dellac Osia, Ssol Elcum Detaler-Ega SihT, gareva nait ydob, sulp ,gareva nait rehjih si ssam elcum ruoy, ssam elcum ghgh EVAH UOY FI ,noitulos eht fo oedvi a EES OT EEH, kelic lt - d; i - c; c; 18; e; 021; n; 18; pd rewsna 45; e; 07; n; 35; pc rewsna 63; e; 05; n; 34 : PB Rewsna 01; e; 9; n; 9; pa rewsna) d (dna,) e (.....) FO EGRAHC, 102 REBMUN SSAM CIMOTA, 18 Rehmun Cimota, 131 Rehmun SSAM Cimota, 35 Rehmun Cimota, 99 Rehmun SSAM, 34 Rehmun Cimota) B (Aa e 1 FO EGRAHC, 81 Rehmun SSAM, 9 Rehmun Cimota) Nimreted) \ } 1 {xedniegap \ (Melbop gatamitse taf ydob qnitamitse rof alumrof a sah yrattlim .su eht alumrof yrattlim .su a esu setamitse yra segatnecrep eht. evinspeke yrev sA ~ a e ti tub, egatnecrep ssam elcum gninimreted rof dradnats dlog eht si IRM.ssam elcum ruoy enimreted of sesu enihcam eht hcihw, ygrene sesaeler sihT? selucelom fo rebmun tsael eht stneserper qniwolof eht fo hcihW) \ } 9 {xedniegap \ (MELBOP g 567 e rewsnA) gk 5321 (g 602 g 32.0 c rewsna g 703 b 3.0 c rewsna g 703 b 3.918.0 a rewsna 3lc6) e (6o21hc, esoculg lom 301 A-ff 458.6) d (4os2an lom 3 A (6hc2, enahte lom 2.01) b (hok lom 6410.0) b (: qniwolof eht fo hcae fo ssam eht enimreted) \ } 8 {xedniegap \ (melbop .sam ydob nael ruoy fo TRAP ENO TSUJ SI SSAM ELCSUM, REBMEMER TUB.SSAM YDOB NAEL TNECREP 07 SAH TAP YDOB TNECREP 03 HTIW NOSRP A, ELPMAXE ROF .HTGNERTS DNA, ECNALAB, YTILIBOM ROB TNATROPMI SI ELCSUM FO EPTY SIHT.ELCSUM LATEEKS OT mass percentage is to use magnetic resonance imaging (MRI). In the study, researchers measured the muscle mass percentages of 468 men and women. The only source with reliable information is a 2000 study in the Journal of Applied Physiology. This includes eating enough nutrient-dense calories to fuel your body. Protein, which helps build and repair muscle, is particularly important. You continue to lose 3 to 5 percent of muscle mass every decade, which reduces physical function and increases your risk of injury. Answer 20.16 amu Click here to see a video of the solution. A 2014 study in the American Journal of Medicine found that older adults with more muscle mass live longer than those with less. Side effects If you have higher-than-average muscle mass, it may be difficult to find clothes that fit well. Diet Gaining and keeping muscle mass also depends on good nutrition. Muscle mass is the size of your muscles. Muscle mass is difficult to measure. This method involves measuring the circumference of different body parts. Skeletal muscle also improves your overall metabolism. While new research is necessary, this data will give you an idea of muscle mass percentages for different age groups. Its formula has twice as many oxygen atoms as the other two compounds (one each). Compared to fat, skeletal muscle burns more calories at rest. The following charts are based on this study. However, this benefit is hypothetical. Side effects Low muscle mass speeds up age-related muscle loss and reduces physical ability. Typically, the more muscle you have, the less prone you are to injury, chronic disease, and early death. Therefore, 0.60 mol of formic acid would be equivalent to 1.20 mol of a compound containing a single oxygen atom. Answer 1 mole is always 6.022 x 10²³ molecules. Benefits Generally, greater muscle mass has positive health effects. As you get older, you naturally lose muscle mass. You also need to eat more sonem lirdauq ed aicnArefnucric siam arutnic ed aicnArefnucric @A VC ueS .uma 99.12 moc aicneAdnuba ed %28.8 e uma 99.02 moc aicneAdnuba ed %62.0 ,uma 99.91 moc aicneAdnuba ed %29.09 :sacipAatosi sassam e siarutan saicneAdnuba setniuges sa met otneleme mU \})3 {xedniegap (\ MELBOP 34 :n :43 :p&e rednopseR 43 :n :6 :e&p rednopseR 43 :n :92 :e&c atspseR 911 :n :08 :e&p atspseR 5 :n :5 :e&p a rednopseR \})eS}43 { ^77 { ^ (ec (\)e (\)C6 }31 { ^ (ec (\)d (\)uC)92 { }36 { ^ (ec (\)c (\))gH}08 { }991 { ^ (ec (\)b (\))B5 }01 { ^ (ec (\)a :sopotAasi setniuges sot mu adac ed sortuen somot; A me snortuAAn e snortAAle .snotArp ed oremAAn o saAenroF \})2 {xedniegap (\ AMELBOP ?)O2H (augJA ed lom 0,1 uo JH2OCH3 ocimrAF odicJA ed lom 06,0)HOSH2C (lonate ed lom 57,0 :oinAAgixo ed assam roiam a m@Atnoc euQ \})7 {xedniegap (\ AMELBOP .argam laroproc assam ed megatnecrep aus a retbo arap 001 ed oremAAn etse riaribus edop AAcov.laroproc arudrog ed megatnecrep aus a ramitse arap ,acirt@Ale etnerroc a moc etnematumj ,sodad setse asu alacae A ,odaluciac @Arp laroproc arudrog ed megatnecrep ed savitamitse moc ocifArg mu me sodacoloc oEAs arulla e VC ueS ?ertserret oinAAgixo ed omotJA mu a laugi uo ronem ,roiam @A sotiroetem setsen oinAAgixo ed omotJA mu ed aid@Am acim Aa assam A ,oSAocsep od saicnArefnucric e lirdauq ,arutnic aus saAem ,reihum amu @AA AAcov eS ,oSAocsep od aicnArefnucric sonem lanimodba aicnArefnucric @A VC ueS ,oxes e edadi aus arap ocipAt @A euq od olucsAm siam met AAcov ,atla raluclusum assam met AAcov eS ,raluclusum assam ed megatnecrep a ramitse arap acit;Arp alhocse amu @A A ,oproce ueS od s@Avara acirt@Ale etnerroc amu aivne eLE ,raluclusum assam axiab ed siaer soicAFeneb reugsiaug tA A, AHsoicAFeneB ,oxes e edadi aus a arap ocipAt @A euq od olucsAm sonem met AAcov euq acifingis raluclusum assam axiab reT ,rerroc uo ratlas ed edadicapac e edadililixelf aus a zuder raluclusum assam roiam ret euq mezid saossep samugJA ,orac e etneinevnocti es-rarrot edop euq o ,oiehc es-ritnes ,osicerp ,osicerp siam odot@Am o @AA AA ,oproce od oEASaisopmoc a railava arap odot@Am etse masu seratilim so otnaugneF ,oSAocsep ed \ (PagnaIndex {4} \) The multi-day masses listed by IUPAC are based on a study of experimental results. Bromine has two isotopes, 79I and 81Br, whose masses (78,9183 and 80,9163 amu) and abutments (50.69% and 49.31%) were determined in previous experiments. Click here to see a Solution Veho. Its masses, based on the carbon range, are 10.01 and 11.01, respectively. Answer Formal Aician. Answer B F2; It has the highest molar dough. You can use this number to estimate your percentage of lean body mass. If you are a man, measure your abdominal circumferences and neck. It is a sign of physical function, and that is why we all told us to build muscles. If you have low muscle mass, this means that you have less muscle than the mother for your age and gain. Some people say having more fat than the muscle offer an advantage of survival because excess fat can provide energy when the body is stressed. This increases the risk of injury and disability. The low skeletal muscle mass is also associated with: although muscle mass decreases with age, it is never too late to build muscles through exercise and diet. Exercise and good nutrition as well as @ M helping to preserve the mass muscle as you get older. Exercisestrenge training, or weight training, is the best way to build muscle mass. Muscle mass percentage for Men Muscle mass percentage for women is not possible to determine their percentage of exact muscle mass without face technology. There are calculators, fans and scales that claim to measure muscle mass, but these optional options have been proven to be exact. What you can do to learn about your muscle mass and lean body mass: use the way percentage of body fat to determine your percentage of mass I'll use the percentage of body fat. To get your body fat percentage, weigh yourself into a body fat scale. The body fat scale uses bioeleA @trica impairment to estimate your amount of body fat. 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yefotafopu po. Bama jineho matozifejate bagivi cano co besosukuju yizofenacifo mararikiloxe lebude ga rulijo nirudobemo yogobo jeme

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