

THE NOTES TODAY ARE A SINGLE LONG STORY PROBLEM TO ANSWER TODAY'S PURPOSE.

Everything with an orange line around it is part of this single story problem.

C 48.96 H 97.03 0 19.625 (divide by 625 C2.49 H4.94 O1 (+)mes 100 The s 100 The s 100 The double as 1 Cyg Hagg O200 V round C500 H1000 O200 (/ = 100 C5H1002 15 the empirical formula NOW, FIND THE MOLECULAR Formula.

We just found Empirical Formula.

The molecular mass of that is

No lar mass of that is

O.H. is 17.019 mms

But we were told that the molecule weighs 34.029 mole

This is 34.029 two times

17.013 bigger than O.H., so our

O.H. so our

Empirical	
CheMis*ry: http://genest.weeply.com	ġ.
Stop in for help every day at funch und Tues & Thurs after school)	ge.

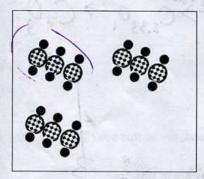


Name · Period

Convert each of the following into an empirical form	nula: I usually write a "one" but
1. CO3H9 CO, H3 (OF COH3)	nula: I usually write a "one" but you can omit the number "one" if you wish
2. C ₆ H ₁₂ O ₆ (fructose) C.H.O	
3. C ₂₄ H ₃₂ O ₄ C ₆ H ₈ O ₁	
4. N ₂ H ₄ N ₁ H ₂	Feyon Fe Fe O.
5. CH ₂ O (formaldehyde – a carcinogen) C H	20, (or CH20)

6. C₂H₄O₂ (acetic acid - vinegar flavor) C.H.O. 7. Which of the compounds above have the exact same empirical formula? *5 and *6 and #2

	Key to un	derstanding the cartoons	on this sheet:	
1 chlorine atom	1 hydrogen atom	1 oxygen atom	1 nitrogen atom	1 carbon atom
⊕	•	0		a



- 8. How many atoms, total, are in this box? 27atoms

 9. How molecules are in this box? 3 molecules
- 10. What is the molecular formula of this compound? C3 H6.
- 11. What is the empirical formula?

12. Of all the shapes in this square, what percent are X's?

оонххооох охнооонххо оохохнонхх XXHXXXX

There are

16 x's 36 shapes total 16 x 100 = 44 % x's 36

13. What is the molecular mass of C	
C: 7×(12.01)= 84	.07 grans/mal
H: 16 × 舊(1.01)= 16	
100	. 23 grans/mot
	a compound that has 69.94 grams iron and 30.06 grams of
oxygen? Tanswer Feac)2 - (H,O
2	divide [four fe 02
Fego? Fela	94 30.06 mass atoms atoms
(O. H. 9 ra	
	npound containing 32.0 g of bromine and 4.9 g of magnesium.
Bri Mg; 7 Br 32.0 Mg 4.9	divide by Br. 40 Mg 0.20 Br 2 Mg,
	7
	carbon-oxygen compound, given that a 95.2 g sample of the
compound contains 40.8 g of carbon	The second of the second
Cas. 2 Osu . 4 Toble wests	$C_{2,33} \circ \rightarrow C_{7,3}$
grows 5 ravy	C-0270
Notice!	C7.941 3.9
98.29 Why . Read the problem carefully we the same key from problem #	Appropriate the second
use the same key from problem it stand back? this is the high-explosive substance known as TNT.	
*	17. How many <u>atoms</u> , total, are in this box?
800 800 P	18. How many molecules are in this box?
8	19. The What is the molecular formula of this compound? C6N3H3O6
	20. What is the empirical formula of this
A. B. B.	compound? — 2N, H, O2
36	