

## Chemistry – Unit 5 Worksheet 2

1. An old (pre-1987) penny is nearly pure copper. If such a penny has a mass of 3.3 g, how many moles of copper atoms would be in one penny?

$$3.3 \text{ g} \times \frac{1 \text{ mole}}{63.5 \text{ g}} = 5.2 \times 10^{-2} \text{ mol or } 0.052 \text{ mol}$$

2. Four nails have a total mass of 4.42 grams. How many moles of iron atoms do they contain?

$$4.42 \text{ g} \times \frac{1 \text{ mole}}{55.8 \text{ g}} = 7.92 \times 10^{-2} \text{ mol or } 0.0792 \text{ mol}$$

3. A raindrop has a mass of 0.050 g. How many moles of water does a raindrop contain?

$$0.050 \text{ g} \times \frac{1 \text{ mole}}{18.0 \text{ g}} = 2.78 \times 10^{-3} \text{ mol} \rightarrow 2.8 \times 10^{-3} \text{ mol}$$

4. What mass of water would you need to have 15.0 moles of H<sub>2</sub>O?

$$15.0 \text{ moles} \times \frac{18.0 \text{ g}}{1 \text{ mole}} = 2.70 \times 10^2 \text{ g}$$

5. One box of Morton's Salt contains 737 grams. How many moles of sodium chloride is this?

$$737 \text{ g} \times \frac{1 \text{ mole}}{58.5 \text{ g}} = 12.6 \text{ mol}$$

Na	23.0
Cl	35.5
	<hr/> 58.5 g

6. A chocolate chip cookie recipe calls for 0.050 moles of baking soda (sodium bicarbonate). How many grams should the chef mass out?

$$0.050 \text{ moles} \times \frac{84.0 \text{ g}}{1 \text{ mole}} = 4.2 \text{ g}$$

Na	23.0
H	1.0
C	12.0
O	48.0
	<hr/> 84.0

7. Rust is iron(III) oxide. The owner of a 1959 Cadillac convertible wants to restore it by removing the rust with oxalic acid, but he needs to know how many moles of rust will be involved in the reaction. How many moles of iron(III) oxide are contained in 2.50 kg of rust?

$$2.50 \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ mole}}{159.6 \text{ g}} = 15.7 \text{ mol Fe}_2\text{O}_3$$

Fe	111.6
O	48.0
	<hr/> 159.6

# Modeling Chemistry Unit 7

**Washington University (Saint Louis,  
Mo.)**



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relevant processes which can be used by both the industrial and academic community to study and implement advanced control strategies Zolt n K Nagy received his PhD from Babes Bolyai University of Cluj where he worked as a lecturer until 2005 Before taking up his current appointment as a faculty member at Loughborough University UK he was NATO research fellow and visiting lecturer at the University of Illinois at Urbana Champaign and research associate at the University of Stuttgart University of Heidelberg and ETH Z rich His main research interest is in the model based control and optimization of chemical processes He worked on industrial implementation of model based control strategies with companies such as BASF and ABB and has published over 80 papers in the field Arpad Imre Lucaci received his M S and Ph D degrees in chemical engineering from Babes Bolyai University of Cluj Napoca in 1985 and 1999 respectively Since 1988 he has worked in the Chemical Engineering Department of BBU Cluj Napoca Romania and spent research stays at University of Stuttgart 1994 and ETH Z rich in 2002 and 2003 His main research fields are mathematical modeling simulation and optimization in process industries on which he has published over 20 scientific papers Cristea Vasile Mircea graduated the Faculty of Electrotechnics Romania with specialization on process control and computer science and holds a Ph D degree in process control After 8 years spent in industry he is at present Associate Professor at Babes Bolyai University Cluj Napoca his interests lie in systems theory chemical process control advanced process control data acquisition and control linear and nonlinear model based predictive control and fuzzy control He was director of CNCSIS Projects and has published 3 books as well as over 55 scientific papers Professor Paul Serban Agachi graduated in 1970 in Control Engineering at the Politehnica University of Bucharest Obtained his Ph D in Chemical Engineering from the University Petroleum Gas Ploiesti Romania Professional experience design engineer system analyst researcher in fuel cells process modeling optimization and control At present professor of Process Control at the Department of Chemical Engineering of Babes Bolyai University Cluj Napoca and member of the Academy of Technical Sciences of Romania He has been visiting associate at California Institute of Technology invited professor at E tv s Lorand University UNESCO Higher Education consultant He has published 8 books and 96 scientific papers

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