

The number of moles of substances, when compared and reduced to the lowest terms, yields a mole ratio, as shown in the sample below. Indicate the mole ratio for each of the following equations:


2:1:2

1:1:1

4:3:2

1:2:1:1

2:1:2

2:1:1

Convert the following masses to moles by using the information on your periodic table.

a) 34.0 g NH_3 FW = 17.03 g/mol

$$34.0\text{g} \left(\frac{1\text{mol}}{17.0\text{g}} \right) = 2.00\text{mol}$$

2.00 mol

b) 51.4 g Na_2O FW = 62.0 g/mol

$$51.4\text{g} \left(\frac{1\text{mol}}{62.0\text{g}} \right) = 0.829\text{mol}$$

0.829 mol

c) 4.50 g H_2SO_4 FW = 98.1 g/mol

$$4.50\text{g} \left(\frac{1\text{mol}}{98.1\text{g}} \right) = 0.0459\text{mol}$$

0.0459 mol

d) 229 g $\text{Ca}(\text{NO}_3)_2$ FW = 164.1 g/mol

$$229\text{g} \left(\frac{1\text{mol}}{164.1\text{g}} \right) = 1.40\text{mol}$$

1.40 mol

e) 79.5 g NH_4OH FW = 35.0 g/mol

$$79.5\text{g} \left(\frac{1\text{mol}}{35.0\text{g}} \right) = 2.27\text{mol}$$

2.27 mol

Convert the following to grams.

a) 17.1 moles H_2O FW = 18.0 g/mol

$$17.1\text{mol} \times \left(\frac{18.0\text{g}}{1\text{mol}} \right) = 308\text{g}$$

308 g.

Skill Practice 1 Number Practice Answers Chemistry

**Shelley Cobbett, Anne G. Perry, Patricia
A. Potter, Wendy R. Ostendorf**

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Burk,2016-01-14 Olmsted Burk is an introductory general chemistry text designed specifically with Canadian professors and students in mind A reorganized Table of Contents and inclusion of SI units IUPAC standards and Canadian content designed to engage and motivate readers distinguish this text from many of the current text offerings It more accurately reflects the curriculum of most Canadian institutions Instructors will find the text sufficiently rigorous while it engages and retains student interest through its accessible language and clear problem solving program without an excess of material that makes most text appear daunting and redundant

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Skills Practice Experiments Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006 U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch,1974 *Resources in Education* ,1994-10 **Chemistry** John Olmsted,Greg Williams,Robert C.

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reference ranges and critical values Learning Points focus on a clinical application of a major concept present in the chapter

Canadian Clinical Nursing Skills and Techniques E-Book Shelley Cobbett, Anne G. Perry, Patricia A. Potter, Wendy R. Ostendorf, 2019-05-21 NEW Fully revised for a Canadian classroom includes Canadian statistics references and resources protocols documentation standards delegation rules Canadian nursing best practice guidelines metric measurements and more NEW All topics skills and sample documentation conform to Canadian provincial and territorial scopes of practice and Canadian standards in nursing practice NEW Inclusion of Canadian concepts Person Centred Care Evidence Informed Practice Interprofessional Collaboration and Delegation and Care in the Community NEW Greater emphasis on cultural assessment considerations and caring for Indigenous and vulnerable populations NEW Thoroughly revised chapters reflect Canadian practice and guidelines including Emergency Preparedness and Disaster Management Palliative Care Cardiac Care Vascular Access and Infusion Therapy Oral Nutrition and Prevention of Skin Breakdown and Wound Care NEW Enhanced and updated art program includes 70 new figures

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