

Moles and Chemical Formulas

11

A. Finding the Simplest Formula

1. Mass of empty crucible + cover
2. Initial appearance of the magnesium
3. Mass of crucible + cover + magnesium
4. Mass of crucible + cover + oxide product

<u>22.842</u>	g
<u>23.483</u>	
<u>23.073</u>	g
<u>29.317</u>	g

Calculations

5. Mass of magnesium
6. Mass of magnesium compound
7. Mass of oxygen in the product
8. Moles of Mg

<u>0.2305</u>	g
<u>6.475</u>	g
<u>6.245</u>	g
<u>.0095</u>	g

(Show calculations.)

$$0.2305 \text{ g/mg} \times \frac{1 \text{ mole mg}}{24.31 \text{ g/mg}} = 0.009481$$

9. Moles of O

(Show calculations.)

$$6.245 \text{ g} \times \frac{1 \text{ mole}}{16.00} = 0.3903$$

10. Which number of moles (Mg or O) is smaller Mole of Mg
moles of Mg (rounded)

Mole Lab Chemistry I Acc Answers

SJ Ball



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Berkeley Lab Research Review, 1997 Cooperative Chemistry Lab Manual Cooper, 2005-02 The laboratory course described in the lab manual emphasizes experimental design data analysis and problem solving Inherent in the design is the emphasis on communication skills both written and oral Students work in groups on open ended projects in which they are given an initial scenario and then asked to investigate a problem There are no formalized instructions and students must plan and carry out their own investigations Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998

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