

Unit 7 Worksheet 1: Molar-mass calculations

Four marks will be given for each question.

1. Write down balanced chemical equations

a) for the reaction of propanoic acid, acetic acid and acetic acid with calcium hydroxide

b) for the reaction of calcium hydroxide with calcium hydroxide

c) Please call up calcium in (b)

2. Hydrogen sulfide gas, which smells like rotten eggs, burns in air to produce water and sulfur. How many moles of hydrogen gas would be needed to completely burn 1 mole of hydrogen sulfide gas?

Equation: _____

Answer: _____

Change: _____

Notes: _____

3. Propane, C_3H_8 , burns in air to form carbon dioxide and water. If 10 moles of carbon dioxide are formed, how many moles of propane were burned?

Equation: _____

Answer: _____

Change: _____

Notes: _____

4. Acetylene, C_2H_2 , has been used in welding. Hydrogen gas and oxygen react to form hydrogen gas and water. How many moles of acetylene gas are needed to burn 10 moles of hydrogen gas?

Equation: _____

Answer: _____

Change: _____

Notes: _____

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