

ACPS SCIENCE CHEMISTRY STOICHIOMETRY

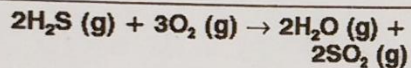
Version A

Name: _____

Date: _____

Show work in box and circle the correct answer.

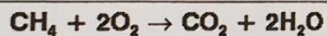
1.



If 3.50 g of H_2S are used in the above reaction, what will be the theoretical yield of water in grams?

- A. 0.102 g
- B. 0.185 g
- C. 1.85 g
- D. 185 g

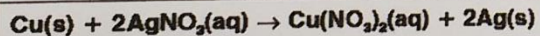
2.



The number of grams of oxygen required for the complete combustion of 4.00 grams of methane (CH_4) is -

- A. 4.00 g
- B. 8.00 g
- C. 16.0 g
- D. 32.0 g

3.

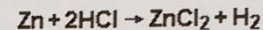


When copper reacts with silver nitrate according to the equation, the number of grams of copper required to produce 432 grams of silver is -

- A. 31.5 g
- B. 127 g
- C. 216 g
- D. 252 g

Version A

4.



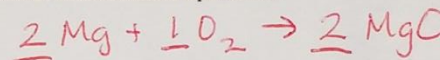
If 0.600 gram of zinc is used, what is the amount of zinc chloride that is produced in the above reaction?

- A. 0.125 grams
- B. 1.25 grams
- C. 12.5 grams
- D. .018 gram

5.

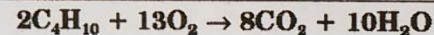
When magnesium metal is burned in the presence of oxygen gas, it forms Magnesium oxide. How many moles of oxygen gas are needed to burn 10 moles of Magnesium?

Write the balanced chemical equation here:



- A. 2
- B. 5
- C. 10
- D. 20

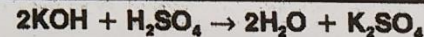
6.



What is the mole ratio of C_4H_{10} to CO_2 in the reaction shown?

- A. 1:4
- B. 2:13
- C. 4:5
- D. 13:8

7.



What mass of potassium hydroxide is required to react completely with 2.70 g of sulfuric acid to produce potassium sulfate and water?

- A. 4.73 g
- B. 3.09 g
- ~~C. 2.36 g~~
- D. 1.54 g