credit!! 1. What is the molar mass of C₃H₈? b. 11.0 g d. $6.02 \times 10^{23} \text{ g}$ a. 36.0 g c. 44.0 g 2. The representative particle for nitrogen is: a. an atom b. a molecule c. a formula unit 3. What is the molar mass of MgCl₂?
a. 59.8 g b. 95.3 g c. 125.8 g d. d. none of the above d. 76.4 g 4. How many grams are in 6.50 moles of H₂SO₄? a. 638 g b. 98.1 g c. 15.1 d. 0.0663 g c. 0.0279 moles d. 0.0250 moles d. 1.60 x 10⁻⁶ g 7. At STP, one mole of any gas occupies a volume of:

a. 1 L

b. 6.02 x 10²³ L

c. 22.4 L

8. What is the volume, in liters of 3.75 moles of O₂ gas at STP? d. none of the above a. 3.75 L b. 32.0 L c. 84.0 L d. 1.20 x 10² L

9. Determine the number of moles in 625 L of H₂ gas at STP.

a. 3.58 x 10⁻² mol b. 27.9 mol c. 1.40 x 10⁴ mol d. 1250 mol

10. The density of a gaseous compound is 1.623 g/L at STP. Determine the molar mass of the compound. a. 13.80 g b. 7.246 x 10⁻²g c. 1.632 g d. 36.36 g 11. How many atoms are contained in 12.5 grams of silver?

a. 6.97 x 10²² atoms

b. 7.52 x 10²⁴ atoms

c. 0.116 atoms d. 1.92 x 10⁻²⁵ 12. What is the percent of aluminum in Al₂(SO₄)₃? a. 28.1 % b. 54.0 % c. 15.8 % d. 56.7 % 13. What is the mass of hydrogen in 50.0 g of propane, C_3H_8 ? a. 18.2 g b. 9.1 g c. 44.0 g d. 81.8 g 14. The reaction in the question 18 is an example of a: a. combination reaction
 b. decomposition reaction
 c. single-replacement reaction
 d. double-replacement reaction 15. When the equation $Fe(s) + O_2(g) \rightarrow Fe_2O_3(s)$ is balanced, what is the coefficient for

c. 3

c. K₂I

18. In order for the reaction $Cu(s) + 2AgNO3(aq) \rightarrow Cu(NO3)(aq) + 2Ag(s)$ to occur, which of

a. Cu must be above Ag in the activity series.b. Ag must be above Cu in the activity series.c. Cu must be above H in the activity series.d. Ag must be above H in the activity series.

b. decomposition reaction

d. double- replacement reaction

d. none of the above

b. 2

b. KI

16. The reaction in question 15 is an example of a: a. combination reaction

17. Which binary compound decomposes to form K+I₂?

c. single-replacement reaction

Show work in your notebook. Work must be organized, complete, and accurate for full

Chemistry--Chapter 10-12 Review Worksheet

Fe₂O3?

a. KI₂

the following must be true?