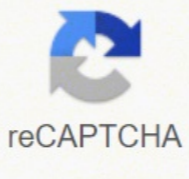




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$$M = \frac{DRT}{P}$$



3. How many liters of oxygen can be produced by the decomposition of 90.0 g of water? (Ans: 56.0 L)

$$90.0 \text{ g H}_2\text{O} \left| \frac{1.0 \text{ mol H}_2\text{O}}{18.0 \text{ g H}_2\text{O}} \right| \frac{1.0 \text{ mol O}_2}{2.0 \text{ mol H}_2\text{O}} \left| \frac{22.4 \text{ L O}_2}{1 \text{ mol O}_2} \right| = 56.0 \text{ L O}_2$$

4. In the reaction between aluminum and oxygen, what mass of aluminum is needed to react with 500 L of oxygen? (Ans: 804 g)

$$500 \text{ L O}_2 \left| \frac{1.0 \text{ mol O}_2}{22.4 \text{ L O}_2} \right| \frac{4 \text{ mol Al}}{3 \text{ mol O}_2} \left| \frac{27.0 \text{ g Al}}{1 \text{ mol Al}} \right| = 804 \text{ g Al}$$

5. If excess chlorine reacts with a solution containing 20.0 g of potassium bromide, what volume of bromine gas is formed? (Ans: 1.90 L)

$$20.0 \text{ g KBr} \left| \frac{1.0 \text{ mol KBr}}{119 \text{ g KBr}} \right| \frac{1 \text{ mol Br}_2}{2 \text{ mol KBr}} \left| \frac{22.4 \text{ L}}{1 \text{ mol Br}_2} \right| = 1.88 \text{ L Br}_2$$

6. Calcium carbonate decomposes at STP to form carbon dioxide and calcium oxide in the following balanced reaction: $\text{CaCO}_3 \rightarrow \text{CO}_2 + \text{CaO}$. How many grams of calcium carbonate will be needed to form 3.45 liters of carbon dioxide? (Ans: 2.16 g)

$$3.45 \text{ L CO}_2 \left| \frac{1.0 \text{ mol CO}_2}{22.4 \text{ L CO}_2} \right| \frac{1 \text{ mol CaCO}_3}{1 \text{ mol CO}_2} \left| \frac{100 \text{ g CaCO}_3}{1 \text{ mol CaCO}_3} \right| = 15.4 \text{ g CaCO}_3$$

III. Gas Density

1. What is the density of hydrogen sulfide gas at STP to three significant figures? (Ans: 1.52 g/L)

$$D = \frac{M}{V} = \frac{34.1 \text{ g H}_2\text{S}}{1.0 \text{ mol H}_2\text{S}} \left| \frac{1 \text{ mol H}_2\text{S}}{22.4 \text{ L}} \right| = 1.52 \text{ g/L}$$

2. What is the density of carbon dioxide at 745 mmHg and -5°C? (Ans: 1.96196 g/L)

$$D = \frac{MP}{RT} = \frac{(44 \text{ g/mol}) (745 \text{ mmHg})}{(0.0821 \text{ L atm/mol K}) (268 \text{ K})} = 1.96 \text{ g CO}_2$$

3. Determine the molecular weight of a gas whose density is 1.84 g/L at 52°C and 600 torr. (Ans: 62.2 g/mol)

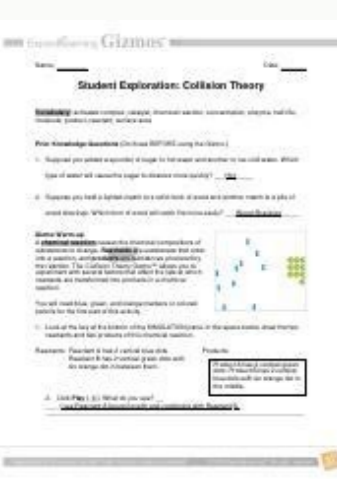
$$M = \frac{dRT}{P} = \frac{(1.84 \text{ g/L}) (62.4 \text{ mmHg}) (325 \text{ K})}{(600 \text{ mmHg})} = 62.2 \text{ g/mol}$$

4. Calculate the density of a gas at 27°C and 0.870 atm if its molecular weight is 34.1 g/mol. (Ans: 1.21 g/L)

$$D = \frac{MP}{RT} = \frac{(34.1 \text{ g/mol}) (0.870 \text{ atm})}{(0.0821 \text{ L atm/mol K}) (300 \text{ K})} = 1.20 \text{ g/L}$$

5. What is the density of argon gas, Ar, at a pressure of 551 torr and a temperature of 25°C? (Ans: 1.18 g/L)

$$D = \frac{MP}{RT} = \frac{(40 \text{ g/mol}) (551 \text{ mmHg})}{(62.4 \text{ mmHg}) (298 \text{ K})} = 1.18 \text{ g/L}$$



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We'll assume you're ok with this, but you can opt-out if you wish. If you don't seem to be making much progress, adjust the exponent using the slider, which will make the scoop size bigger. In the Moles Gizmo, you will learn about a unit used to count atoms. On the AVOGADRO CONSTANT tab, place the copper (Cu) atom on the nano-balance on the left, which will show the average atomic mass of copper rather than the mass of a single copper atom. 1. What is the average mass of a copper atom? The unit "u" refers to unified atomic mass units. © 2020 ExploreLearning™ All rights reserved. Accept Read More Student Exploration: Moles Directions: Follow the instructions to go through the simulation. © 2020 ExploreLearning™ All rights reserved. These are the countries currently available for verification, with more to come! United States Canada Mexico American Samoa Guam Northern Mariana Islands Moldova Guernsey South Africa China Israel Japan South Korea Taiwan Australia New Zealand Argentina Brazil Chile Venezuela This website uses cookies to improve your experience. In the image to the right, note a dozen eggs, a dozen donuts and a dozen roses. How many of each item do you have? If there is a dozen of something you have 12 of an item. 2. Would a dozen of each object have the same mass? No, a dozen of each item would not have the same mass because different objects have different masses. 3. Suppose you have a dozen carbon atoms, a dozen gold atoms, and a dozen iron atoms. Respond to the questions and prompts in the orange boxes. Vocabulary: atomic mass, Avogadro constant, conversion factor, dimensional analysis, mole, molar mass, molecular mass, scientific notation, significant figures, unified atomic mass unit Prior Knowledge Questions (Do these BEFORE using the Gizmo.) 1. Explain. I would not expect them to all have the same mass, each individually weigh differently. Gizmo Warm-up When counting roses, eggs, or donuts, a dozen is a good unit to use. If you are counting atoms, however, a dozen is not much help. How many atoms did you need to add? I had to add about 1*10^22 copper atoms to get 1.055g of copper. Reproduction for educational use only. A single proton or neutron has a mass of approximately one atomic mass unit. Different atoms have different masses therefore even if you have the same amount of a substance/atom/item they will not have the same weight. Gizmo Warm-up When counting roses, eggs, or donuts, a dozen is a good unit to use. Explain. No, just like in the previous example just because there is the same amount of an item doesn't mean that they weigh the same. Thank you for your participation! Student Exploration: Moles Directions: Follow the instructions to go through the simulation. Public sharing or posting prohibited. To gain an idea as to how many atoms are in a gram or so of copper, use the larger balance on the right. Press Add atoms to put a scoop of atoms in the weighing dish, and keep adding until the balance registers between 1 and 2 grams. In the image to the right, note a dozen eggs, a dozen donuts and a dozen roses. How many of each item do you have? You have a dozen of each item, 12. 2. Would a dozen of each object have the same mass? A dozen eggs would have a different mass than a dozen doughnuts. 3. Suppose you have a dozen carbon atoms, a dozen gold atoms, and a dozen iron atoms. (Officially, 1 u is one-twelfth the mass of a C-12 atom.) 2. In the Moles Gizmo, you will learn about a unit used to count atoms. On the AVOGADRO CONSTANT tab, place the copper (Cu) atom on the nano-balance on the left, which will show the average atomic mass of copper rather than the mass of a single copper atom. 1. What is the average mass of a copper atom? The average mass of a copper atom is 63.546 U. The unit "u" refers to unified atomic mass units. If you don't seem to be making much progress, adjust the exponent using the slider, which will make the scoop size bigger.

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