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Pressure and temperature conversions worksheet answers

Temperature and pressure conversion I. The following pressure units are converted: 1.) 2.00 atm to mm Hg 2.) From 115 kPa to 3 atm.) from 500. mm Hg to 4 atm.) 3.5 x 104 torr to mm Hg 5.) since 1800. mm Hg to kPa 6.) 93 500 Pa to 7 atm.) 950. carving up to the 8th ATM.) From 0,490 ATM to kPa II. Recalculate the following temperature readings: 1.) 35 oC to Kelvin 2.) 120 oC to Kelvin 3.) -25 oC to Kelvin 4.) -227 oC to Kelvin 5.) standard temperature kelvine and Celsius 6.) 298 K to oC 7.) from 100. K to oC 8.) 5 Kelvin to oC Ideal gas equation 1 1.) What pressure does 2.0 moles of ideal gas put on when it takes 12.0 L volume 373 K? (Answer: 5.1 atm) 2.) The 2.6 cm3 flash light contains O2 gas at a pressure of 2,3 ATM and 26 °C. How many O2 moles is a flash? (Answer: 2.4 x 10-4 moles) 3.) If 0,20 helium moles occupy a volume of 64.0 litres at a pressure of 0,15 ATM, what is the gas temperature? (Answer: 580 K) 4.) What is the volume of 0,35 mole gases at 1,7 ATM pressure and 100 K? (Answer: 1.7 L) 5.) What is the pressure of 1.5 moles ideal gas at 150 K and occupies a volume of 20.0 litres? (Answer: 0.92 atm) 6.) How many nitrogen moles are 17.8 litres at 27 oC and 1.3 atm pressure? (0,94 moles) 3. What is the pressure 2.3 carbon dioxide moles 235 K, occupying 23.7 liters of space? (1.9 atm) 4. If the sample contains 4.02 x 1023 N2O molecules, how many moles are present? (0,668 moles) 5. Using your answer from #6, calculate the gas pressure if it occupies 27,025 cm3 of space at 38,0 oC. (78,9 g) 7. What is the temperature of 34.2 g of sulphur dioxide, which takes up a space of 30,0 litres and has a pressure of 900. torr? (720. K) 8. What is the pressure of boron trifluoride (mmHg) of 79.4 g at 20.0 L and the temperature is 245 K? (89 mmHg) 9. How many grams is contained in an arsenic trifluoride sample with a volume of 17 600 ml and a temperature of 92 oC and a pressure of 108 732 Pa? (83 g) 10. How much does 23.8 litres of oxygen, weighing 175 grams at 58 oC, do they have a pressure of 23.8 litres? (12 moles) 12. How many grams of argon are found in 23.8 litres of oxygen, weighing 175 grams at 58 oC, do they have a pressure of 23.8 litres? (480 g) Application of 1 ideal gas equation.) What pressure does 1.0 clay put on ideal gases in a 1.0 L container at 0.0 oC? (Answer: 22 atm) 2.) What is the density of the ammonia gas sample NH3 if the pressure is 0.928 atm and the temperature is 63.0 oC? (Answer: 0.572 g/l) 3.) Calculate the molar mass of the gas if the mass of 4.5 L of gas at 785 tonnes and 23.5 oC is 13.5 g. (Answer: 71 g/clay) 4.) 0.453 moles of gas only 15.0 L container makes 1.24 atm pressure on the walls of the container. What is the gas temperature (oC)? (Answer: 227 oC) 5.) 5.4 g of carbon dioxide is limited to a 20.0 L container at 32.5 oC. What pressure does gas put on? (Answer: 0.15 atm) 6.) A pressure of 0.838 atm in a container with a capacity of 2.125 g of gas in a container with a capacity of 1.25 L shall be 0.838. What is the molar mass of gas? (Answer: 52.1 g/clay) 7.) What temperature should 10.0 g ammonia gas (NH3) be heated in a 15.0 L container so that it can exert a pressure of 3.50 ATM? (Answer: 1090 K) 8.) At 2.0 x 10-5 g of hydrogen gas at 155 oC, the pressure of the walls of the small cylindrical tube is 322.5. What is the volume of the pipe? (Answer: 8.3 x 10-4 L) Gas law problems 1.) The gas pressure in the aerosol can is 1.5 atm at 25 oC. Assuming the gas inside obey the ideal gas equation, what would be the pressure if it could be heated to 450 oC? 2.) A gas pocket has been detected in a deep drilling operation. The gas temperature is 480 oC and has a pressure of 12.8 atm. Let's say ideal behavior. What volume of gas does it take to have 18.0 L on the surface at 1.00 ATM and 22 oC? 3.) The fixed amount of gas is compressed at a constant temperature from 368 ml to 108 ml volume. If the initial pressure was 5.22 atm, what is the final pressure? 4.) Gases initially at 15 oC and in volume of 182 ml are reduced volume up to 82.0 ml until its pressure is constant. What's his final temperature? 5.) At a pressure of 36 oC and 1.00 ATM, the gas covers a volume of 0.600 L. How many litres will it take 0.0 oC and 0.205 atm? 6.) What is the temperature at which 9.87 x 10-2 moles occupy 164 ml of 0.645 atm? 7.) Chlorine is widely used to clean the supply of municipal waters and to clean the waters of the basin. Assume that the volume of a given Cl2 sample is 6.18 L at 0.90 atm and 33 oC. What volume of Cl2 will take 107 oC and 0.75 atm? 8.) The gas has a pressure of 1.5 atm at 27 oC. The temperature is increased to 108 oC without volume changes. What is the gas pressure at higher temperatures? Answers to questions: 1.) 3.6 atm 2.) 3.59 L or 3.6 L 3.) 17.8 atm 4.) 130 K or 130. K 5.) 2.59 L or 2.6 L 6.) 13.1 K 7.) 9.2 L 8.) 1.9 atm ADR STOICHIOMETRY (standard terms) ** assume all reactions in this section takes place STP ** 1.) How much oxygen can form from 2.00 grams of KClO3 decomposition. ___ KClO3 à 2.) How many grams of CaCO3 do you need 6.00 L OF CO2 to produce? ___ CaCO3 à 3.) Determine the volume of hydrogen gas occurring when 0.250 zinc moles react with excess HCl. ___ Zn + ___ HCl à 4.) How many liters of nitrogen need to be combined with 3.0 L hydrogen during this reaction: ___ N2 + ___ H2 à 5.) How many liters of oxygen need to be combined with 7.0 liters of propane during this reaction: ___ C3H8 + ___ O2 à 6.) From this reaction: ___ CH4 + ___ O2 à ___ CO2 + ___ H2O How many litres of CO2 are produced from 32.0 g CH4? 7.) How many grams well need 5.0 L for hydrogen production? ___ Well + ___ H2O à 8.) Determine the volume of CO2 resulting from the combustion of 0,750 C moles. ___ C + ___ O2 à ___ CO2 Answers: 1.) 0.551 L 2.) 26,8 g 3.) 5,60 L 4.) 1,0 L 5.) 35 L 6.) 44,8 L 7.) 10 g 8.) 16,8 L LAW & GRAHAM ACT 1. Determine the partial pressure of each gas in a container containing 2.0 moles N2, 3.0 O2 moles and 7.0 H2 moles with a total pressure of 850 mmHg. (You will have 3 separate answers to this question.) 2. The total pressure of the nitrogen-oxygen mixture is 730 mm Hg. If the nitrogen partial pressure is 420 mmHg, find the oxygen pressure. 3. At an altitude of 30 000 ft, the total air pressure is only about 450. mm Hg. What is the volume (in litres) -3.0 oC and 650. mm Hg pressure? 4.) How many grams of nitrogen gas is present in a 32.6 litre container at 34.4 oC and 579 torr? 5.) The four-gas mixture in the container has a total pressure of 955 mmHg. This container contains 4.50 nitrogen gas, 4.25 clay carbon dioxide gas, 2.75 moles of hydrogen gas and 2.00 moles of oxygen gas. What is the partial pressure of each gas? 6.) Compare the effusion rates of carbon dioxide gas and carbon monoxide gas. 7.) Unknown gas outputs 1,37 times faster than chlorine gas. What is the molar mass of unknown gases? 8.) In view of the following unbalanced reactions: ___ C5H12 + ___ O2 à ___ CO2 + ___ H2O How much litres of oxygen do 45.7 litres of CO2 need to produce? 9.) In relation to the unbalanced equation: ___ Mg + ___ O2 à ___ MgO How many litres gas need to produce 45.8 g of magnesium oxide? 10.) The aerosol may contain gas at a pressure of 4.50 ATM at 20.0 oC. If you can be left on a hot sandy beach, the gas pressure increases to 4.80 atm. What is the temperature on the beach (oC)? 1.) (A) 1.5003 atm (B) 0600 atm (C) 1.20 atm 2.) 0 oC (or 273 K) & 1 atm 3.) 0,393 L 4.) 27,6 g 5.) N2 = 318 mmHg, CO2 = 301 mmHg, H2 = 195 mmHg, O2 = 141 mmHg 6.) CO emissions are 1.25 times faster than CO2. 7.) 37.8 g/clay 8.) 73.1 L 9.) 12.8 L 10.) 40.0 oC Back to 10 block worksheets page Back to 10th unit Page Back to home page

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