

Ideal Gas Law Problems – Solution Key

- 1) If I have 4 moles of a gas at a pressure of 5.6 atm and a volume of 12 liters, what is the temperature? **205 K**
- 2) If I have an unknown quantity of gas at a pressure of 1.2 atm, a volume of 31 liters, and a temperature of 87 °C, how many moles of gas do I have? **1.26 moles**
- 3) If I contain 3 moles of gas in a container with a volume of 60 liters and at a temperature of 400 K, what is the pressure inside the container? **1.64 atm OR 166 kPa**
- 4) If I have 7.7 moles of gas at a pressure of 0.09 atm and at a temperature of 56 °C, what is the volume of the container that the gas is in? **2310 L**
- 5) If I have 17 moles of gas at a temperature of 67 °C, and a volume of 88.89 liters, what is the pressure of the gas? **5.34 atm**
- 6) If I have an unknown quantity of gas at a pressure of 0.5 atm, a volume of 25 liters, and a temperature of 300 K, how many moles of gas do I have? **0.51 moles**
- 7) If I have 21 moles of gas held at a pressure of 78 atm and a temperature of 900 K, what is the volume of the gas? **19.9 L**
- 8) If I have 1.9 moles of gas held at a pressure of 5 atm and in a container with a volume of 50 liters, what is the temperature of the gas? **1603 K**
- 9) If I have 2.4 moles of gas held at a temperature of 97 °C and in a container with a volume of 45 liters, what is the pressure of the gas? **1.62 atm**
- 10) If I have an unknown quantity of gas held at a temperature of 1195 K in a container with a volume of 25 liters and a pressure of 560 atm, how many moles of gas do I have? **143 moles**
- 11) If I have 0.275 moles of gas at a temperature of 75 K and a pressure of 1.75 atmospheres, what is the volume of the gas? **0.97 L**
- 12) If I have 72 liters of gas held at a pressure of 3.4 atm and a temperature of 225 K, how many moles of gas do I have? **13.3 moles**

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[REZ] 72.0 torr Gas Law Problems Charles' Law 1. A sample of nitrogen occupies a volume of 250 mL at 25°C. What volume will it occupy at 95°C? Ve Blom! | 2, Oxygen gas is at a temperature of 40°C when it occupies a volume of 2.3 liters. To what temperature should it be raised to occupy a volume of 6.5 liters? [T=] 3. Hydrogen gas was cooled from 150°C to 50.°C. Its new volume is 75 mL. What was its original volume? - | V=FSml 4. Chlorine gas occupies a volume of 25 mL at 300 ...

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South Pasadena Chemistry 12 The Gas Laws Name Period Date / CHARLES'S LAW Charles' Law states the volume of a gas varies directly with the Kelvin temperature,

assuming the pressure is constant. We use the followin formulas: or K=OC+273 C Toss Solve the following problems assuming a constant pressure. Assume all numbers are 3 significant figures.

Gas Laws Packet Key - Mr. Smith's Pre-AP Chemistry

Homework Packet: Gas Law. Boyle's Law Problems: P1V1= P2V2. 1 atm = 760.0 mm Hg = 101.3 kPa. If 22.5 L of nitrogen at 748 mm Hg are compressed to 725 mm Hg at constant temperature. What is the new volume? A gas with a volume of 4.0L at a pressure of 205kPa is allowed to expand to a volume of 12.0L. What is the pressure in the container if the temperature remains constant?

Gas Laws Worksheet #2: Boyle, Charles, and Combined Gas Laws

Gas Laws Packet Answer Key

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Gas Laws Practice Packet Name: Block: Date: BOYLE'S LAW: Use Boyle's Law to answer the following questions. Show all work and include units to receive full credit. Answers are in bold. 1. What is the mathematical relationship between pressure and volume for a gas? 2. Draw and label a graph that shows the relationship between pressure and ...

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EVERY GAS LAW is covered in this packet as well as some important conversions for gas law problems (temperature conversions, pressure conversions, Boyle's, Charles', Gay-Lussac's, Avagadro's, Graham's, Ideal, Combined) Each law has its own page of problems and at the end of the packet there are TWO pages of mixed problems so students get practice figuring out which law to use!

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Practice Ideal Gas Law Worksheet: 1 - 4 (page 12 in packet) Unit 10 Packet - Page 7 of 14 GAS LAW PROBLEMS Work the following problems and identify the gas law used; be sure your answer includes units! 1. A gas occupies a volume of 35.9 ml at a temperature of 22.0 C. What volume will the same gas occupy at a temperature of 28.0 C? 2. At a pressure of 780 mm Hg and 24.2 C a gas has a volume of 350.0 ml. What will the volume of this gas be under standard conditions? 3. A gas occupies a ...

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