

## Ideal Gas Law Worksheet PV = nRT

Use the ideal gas law, "PerV-nRT", and the universal gas constant  $R = 0.0821 \frac{L*atm}{L*mol}$  to solve the following problems:

If pressure is needed in kPa then convert by multiplying by 101.3kPa / latm to get

R =8.31 kPa\*L / (K\*mole)

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?

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?

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?

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?

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?

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?

# **Ideal Gas Law Problems Sheet 2 Answers**

**Carson-Dellosa Publishing** 

## **Ideal Gas Law Problems Sheet 2 Answers:**

A Guide to Teaching in the Active Learning Classroom Paul Baepler, J. D. Walker, D. Christopher Brooks, Kem Saichaie, Christina I. Petersen, 2023-07-03 While Active Learning Classrooms or ALCs offer rich new environments for learning they present many new challenges to faculty because among other things they eliminate the room's central focal point and disrupt the conventional seating plan to which faculty and students have become accustomed The importance of learning how to use these classrooms well and to capitalize on their special features is paramount The potential they represent can be realized only when they facilitate improved learning outcomes and engage students in the learning process in a manner different from traditional classrooms and lecture halls This book provides an introduction to ALCs briefly covering their history and then synthesizing the research on these spaces to provide faculty with empirically based practical quidance on how to use these unfamiliar spaces effectively Among the questions this book addresses are How can instructors mitigate the apparent lack of a central focal point in the space What types of learning activities work well in the ALCs and take advantage of the affordances of the room How can teachers address familiar classroom management challenges in these unfamiliar spaces If assessment and rapid feedback are critical in active learning how do they work in a room filled with circular tables and no central focus point How do instructors balance group learning with the needs of the larger class How can students be held accountable when many will necessarily have their backs facing the instructor How can instructors evaluate the effectiveness of their teaching in these spaces This book is intended for faculty preparing to teach in or already working in this new classroom environment for administrators planning to create ALCs or experimenting with provisionally designed rooms and for faculty developers helping teachers transition to using these new spaces **Thermodynamics** Nicole Marie Gillespie, 2004 Unique Scientific Puzzles Dr. S. Pancharatnam, 2020-04-06 Born and brought up in a sugar factory village Pancharatnam turned into a good scholar in leading school and college in Pune then IIT Bombay This propelled him into some of the world's best universities UC Berkeley and Stanford He managed to get away from the ivory towers of USA and devote to more challenging and rewarding Indian chemical industry with more useful RD and project engineering Another success story was his own business of specialty filters for the mech engineering industry with over hundred reputed customers So here he is with a fully enjoyable career of fifty years with over fifty projects and many publications Having spent all his life in technical investigation and improvements he has brought to you vast variety of 500 interesting puzzles from various fields Most are actually encountered in daily life Many are truly unique and some quite advanced Further over 500 jokes are added for relaxing in between So go ahead struggle laugh and learn a lot This small book is highly recommended for students of final years of school all college students in science engineering and tech professionals Even teachers will find it interesting for setting tests Of course riddles and easy puzzles can be enjoyed by everyone Free quarterly updates are assured on your email id for 1 year **Fundamentals of Analytical Chemistry** 

Douglas A. Skoog, 2004 This text is known for its readability combined with a systematic rigorous approach Extensive coverage of the principles and practices of quantitative chemistry ensures suitability for chemistry majors Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 Modelling Physics with Microsoft Excel Bernard V Liengme, 2014-10-01 This book demonstrates some of the ways in which Microsoft Excel may be used to solve numerical problems in the field of physics But why use Excel in the first place Certainly Excel is never going to out perform the **Chemistry** Carson-Dellosa Publishing, 2015-03-16 Chemistry for grades 9 to 12 is wonderful symbolic algebra tools tha designed to aid in the review and practice of chemistry topics Chemistry covers topics such as metrics and measurements matter atomic structure bonds compounds chemical equations molarity and acids and bases The book includes realistic diagrams and engaging activities to support practice in all areas of chemistry The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series will be aligned to current science standards **Connecting Mathematics and Science to Workplace Contexts** Edward Britton, 1999-06-23 Engage students through real world curriculum It s no accident that employers complain that newly minted graduates are out of touch with the realities of work demands Too often there is a disconnect between what is taught in the classroom and what is demanded in the workplace and students suffer the consequences Mathematics and science curricula can play a critical role in solving this dilemma In this comprehensive review of 23 exemplary curricula programs the authors offer an easy to use guide for tying curriculum to workplace experiences from a hematology laboratory to an agricultural setting to a soda bottling company these programs illustrate concrete real life situations to which students can relate and derive motivation Learn how to Meet the goals of science mathematics and technology education Meet national curriculum standards Chart key characteristics of successful curricula Connect curriculum to workplace contexts Create your own curriculum materials This book is a must for mathematics and science educators curriculum developers and supervisors and educators in school to work programs and vocational courses

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