

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 Worksheet Answers

O. Jerry Parker, Gary L. Breneman

Ideal Gas Law Problems Worksheet 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 **Physics Workbook For Dummies** Steven Holzner, 2007-10-05 Do you have a handle on basic physics terms and concepts but your problem solving skills could use some static friction Physics Workbook for Dummies helps you build upon what you already know to learn how to solve the most common physics problems with confidence and ease Physics Workbook for Dummies gets the ball rolling with a brief overview of the nuts and bolts i e converting measures counting significant figures applying math skills to physics problems etc before getting into the nitty gritty If you re already a pro on the fundamentals you can skip this section and jump right into the practice problems There you ll get the lowdown on how to take your problem solving skills to a whole new plane without ever feeling like you ve been left spiraling down a black hole With easy to follow instructions and practical tips Physics Workbook for Dummies shows you how to you unleash your inner Einstein to solve hundreds of problems in all facets of physics such as Acceleration distance and time Vectors Force Circular motion Momentum and kinetic energy Rotational kinematics and rotational dynamics Potential and kinetic energy Thermodynamics Electricity and magnetism Complete answer explanations are included for all problems so you can see where you went wrong or right Plus you ll get the inside scoop on the ten most common mistakes people make when solving physics problems and how to avoid them When

push comes to shove this friendly guide is just what you need to set your physics problem solving skills in motion

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<u>Fundamentals of Analytical Chemistry</u> 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

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