

Pressure Conversions

Chem Worksheet 13-1

Name _____

Pressure is defined as the force pushing over a certain area. A gas pressure results from the many collisions between gas particles and their container. One common unit for pressure is the newton per square meter (N/m^2). This unit is called a **pascal (Pa)**. Since it is so small it is often reported in thousands of pascals or **kilopascals (kPa)**. The gases surrounding the earth exert a pressure of approximately **1 atmosphere (atm)** at sea level. There are other units used to measure pressure (see the table below).



USEFUL EQUATIONS

1.00 atm = 101300 Pa	1.00 atm = 760 mmHg
1.00 atm = 101.3 kPa	1.00 atm = 760 torr
1.00 atm = 14.7 psi	1 cm = 10 mm
1 in. = 2.54 cm	

examples

A container of gas measures the pressure to be 104.9 kPa. Convert this pressure to psi.

$$\frac{104.9 \text{ kPa}}{1} \times \frac{14.7 \text{ psi}}{101.3 \text{ kPa}} = 15.2 \text{ psi}$$

Atmospheric pressure is reported as 30.1 inHg. Convert this to torr.

$$\frac{30.1 \text{ inHg}}{1} \times \frac{2.54 \text{ cmHg}}{1 \text{ inHg}} \times \frac{10 \text{ mmHg}}{1 \text{ cmHg}} \times \frac{760 \text{ torr}}{760 \text{ mmHg}} = 765 \text{ torr}$$

Use the conversion factors in the table to solve the following problems.

- The pressure is recorded as 738 mmHg. Convert this measurement to atmospheres (atm).
- A ball is inflated to a pressure of 32.0 pounds per square inch (psi). Convert this pressure to atmospheres (atm).
- What is the pressure in pascals if the pressure is equal to 380 torr?
- The air pressure in a tire is 2.38 atm. What is this pressure in kilopascals?
- The atmosphere supports a column of mercury that is 748 mm in height. What is atmospheric pressure in torr? Convert this pressure to atmospheres (atm).
- Many pneumatic tools operate at an air pressure of 90 psi. What is the equivalent pressure in kilopascals (kPa)?
- The safety disk in a scuba tank will blow at a pressure of approximately 25000 kPa. Convert this pressure to mmHg.
- When a brake pedal is pressed with a pressure of 100 psi the pressure is converted about 1200 psi in the master cylinder. What is the pressure of the master cylinder in torr?
- Normal atmospheric pressure in Mexico City is about 56.5 cm Hg. Convert this to atmospheres.
- If the gas in a container can support 74 inches of mercury, what is the gas pressure in pascals (Pa)?

John Erickson 2005 Answer Key

Rosina Ehmann



John Erickson 2005 Answer Key:

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eliminated The lists procedures suggestions and guidelines are field tested and directly related to field situations Those who want theoretical depth are guided to other sources in the bibliography that can provide such information The table of contents is prescriptive in nature so that it can be used as a self contained guide to disaster response Two additional indices are included to help guide users to specific types of crises or to procedures and techniques and to the chapters of the book that are related The book can be most appropriately used as a supplemental text in related emergency management crisis intervention and disaster psychology classes and it will also be appropriate for first and second responder training The experienced disaster intervener can use this book independently in the field in training and in the office

Forest Science, 2015

Ward's Business Directory of U.S. Private and Public Companies, 1998 This multi volume set is a primary source for basic company and industry information Names addresses SIC code and geographic location of over 135 000 U S companies are included

Scale and Complexity in Plant Systems Research J.H.J. Spiertz,P.C. Struik,H.H. van Laar,2007-04-24 New directions in plant systems research are presented and discussed in this book The book offers new insights in physiology and genetics of crop adaptation for wheat and maize along with innovative approaches in architectural and physiology based modelling of crop functioning An outlook and dialogue on future directions in plant system research challenges readers with contrasting opinions on the way forward

Dissertation Abstracts International, 2007

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Table of Contents John Erickson 2005 Answer Key

1. Understanding the eBook John Erickson 2005 Answer Key
 - The Rise of Digital Reading John Erickson 2005 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying John Erickson 2005 Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an John Erickson 2005 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from John Erickson 2005 Answer Key
 - Personalized Recommendations
 - John Erickson 2005 Answer Key User Reviews and Ratings

- John Erickson 2005 Answer Key and Bestseller Lists
- 5. Accessing John Erickson 2005 Answer Key Free and Paid eBooks
 - John Erickson 2005 Answer Key Public Domain eBooks
 - John Erickson 2005 Answer Key eBook Subscription Services
 - John Erickson 2005 Answer Key Budget-Friendly Options
- 6. Navigating John Erickson 2005 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - John Erickson 2005 Answer Key Compatibility with Devices
 - John Erickson 2005 Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of John Erickson 2005 Answer Key
 - Highlighting and Note-Taking John Erickson 2005 Answer Key
 - Interactive Elements John Erickson 2005 Answer Key
- 8. Staying Engaged with John Erickson 2005 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers John Erickson 2005 Answer Key
- 9. Balancing eBooks and Physical Books John Erickson 2005 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection John Erickson 2005 Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine John Erickson 2005 Answer Key
 - Setting Reading Goals John Erickson 2005 Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of John Erickson 2005 Answer Key
 - Fact-Checking eBook Content of John Erickson 2005 Answer Key
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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