

Worksheet 8-1 Pressure

Pressure is defined as the force applied divided by the area over which it is applied. A gas pressure results from the many collisions between gas particles and a surface. The SI unit of pressure is the newton per square meter (N/m^2) called the pascal (Pa). A pascal is very small so it is often reported in thousands of pascals or kilopascals (kPa). The atmosphere surrounding the earth exert a pressure of approximately 1 atmosphere (atm) at sea level. There are other units used to measure pressure shown in the table below.

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}}$$

$$P = \frac{F}{A}$$

Useful Conversions

$$1 \text{ atm} = 760 \text{ mmHg}$$

$$1 \text{ torr} = 1 \text{ mmHg}$$

$$1.00000 \text{ atm} = 14.6959 \text{ psi} = 101.325 \text{ kPa}$$

$$1 \text{ in} = 25.4 \text{ mm}$$

Example 1: A container of gas has a pressure of 104.9 kPa. Convert this pressure to psi.

$$\frac{104.9 \text{ kPa}}{1} \times \frac{1 \times 10^3 \text{ Pa}}{1 \text{ kPa}} \times \frac{14.696 \text{ psi}}{101325 \text{ Pa}} = \boxed{15.21 \text{ psi}}$$

Example 2: Barometric pressure is reported as 30.1 inHg. Convert this to torr.

$$\frac{30.1 \text{ inHg}}{1} \times \frac{25.4 \text{ mmHg}}{1 \text{ inHg}} \times \frac{1 \text{ torr}}{1 \text{ mmHg}} = \boxed{764.5 \text{ torr}}$$

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 25 000 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 565 mmHg. Convert this to atmospheres.
- If the gas in a container can support 74 inHg, what is the gas pressure in pascals?

Practice 8 1 Worksheet

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In Step Maths Workbook 3B Part 1 , **The Occupational Therapist's Workbook for Ensuring Clinical Competence** Marie Morreale,Debbie Amini,2024-06-01 The Occupational Therapist s Workbook for Ensuring Clinical Competence is designed to help occupational therapy students and new practitioners demonstrate the practical problem solving and real life clinical reasoning skills essential for fieldwork and clinical practice This user friendly resource helps the reader apply occupational therapy concepts improve narrative and pragmatic reasoning skills and measure attainment of knowledge and skills needed for successful transition to fieldwork and entry level practice Inside The Occupational Therapist s Workbook for Ensuring Clinical Competence a wide variety of client conditions situations and intervention options are presented for different practice areas Knowledge and skills are assessed for fundamental aspects of occupational therapy such as professionalism ethical decision making evidence based practice evaluation and intervention planning occupation based interventions effective communication supervision role delineation activity analysis cultural competence interprofessional collaboration group process emerging practice areas department management safety documentation billing and reimbursement and more Marie Morreale and Debbie Amini have incorporated numerous worksheets learning activities and worksheet answers in an easy to read format The variety of assessment methods and learning activities used throughout the text stem from the authors combined decades of teaching experience and include case studies vignettes multiple choice matching and true false questions fill in the blanks experiential activities and more Topics are broken down into smaller units and explained step by step to allow for easy independent study Thoroughly explained answers are provided so that readers can check their responses with suggested best practice These worksheets and learning activities are also useful as role playing exercises studying in small groups and can aid in preparing for fieldwork or the national certification exam Included with the text are online supplemental materials for faculty use in the classroom The Occupational Therapist s Workbook for Ensuring Clinical Competence is the go to text for occupational therapy students and faculty as well as new occupational therapy practitioners who require the practical problem solving skills and the clinical decision making skills essential for fieldwork and clinical practice **Fantasy Soccer and Mathematics** Dan Flockhart,2007-03-23 The innovative math program based on real life sports statistics Cover **In Step Maths Workbook 5B Part 1** ,2005 *Learning Composite Mathematics -1* S.K. Gupta & Anubhuti Gangal, Updated Lab activities Group activities Worksheets Projects Mental Maths Challengers Tricky questions MCQs Chapter Test Quick Review Use of modern tools gadgets and technology make these books more interesting and user friendly Maths Alert has been updated at various places to point out the common mistakes

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