

## Ideal Gas Law Practice Worksheet

Solve the following problems using the ideal gas law:

- 1) How many moles of gas does it take to occupy 120 liters at a pressure of 2.3 atmospheres and a temperature of 340 K?

$$P = 2.3 \text{ atm}$$

$$V = 120 \text{ L}$$

$$T = 340 \text{ K}$$

$$n = \frac{PV}{RT}$$

$$n = \frac{2.3 \cdot 120}{0.0821 \cdot 340}$$

$$9.987 \text{ moles}$$

- 2) If I have a 50 liter container that holds 45 moles of gas at a temperature of 200° C, what is the pressure inside the container?

$$P = ?$$

$$V = 50 \text{ L}$$

$$T = 200^\circ\text{C} \rightarrow 473 \text{ K}$$

$$n = 45 \text{ moles}$$

$$P = \frac{45 \cdot 0.0821 \cdot 473}{50}$$

$$34.95 \text{ atm}$$

- 3) It is not safe to put aerosol canisters in a campfire, because the pressure inside the canisters gets very high and they can explode. If I have a 1.0 liter canister that holds 2 moles of gas, and the campfire temperature is 1400° C, what is the pressure inside the canister?

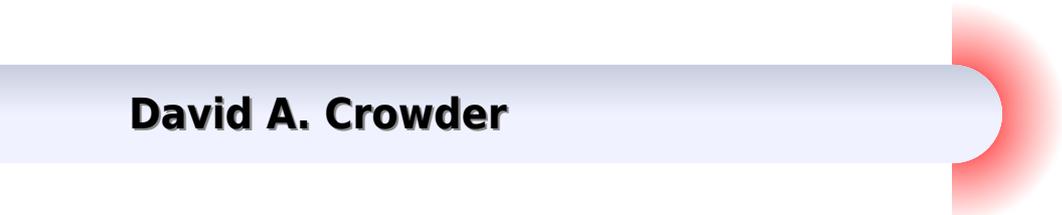
$$V = 1.0 \text{ L}$$

- 4)  $n = 2$   
How many moles of gas are in a 30 liter scuba canister if the temperature of the canister is 300 K and the pressure is 200 atmospheres?

- 5) I have a balloon that can hold 100 liters of air. If I blow up this balloon with 3 moles of oxygen gas at a pressure of 1 atmosphere, what is the temperature of the balloon?

# Gas Law Practice Homework Packet

**David A. Crowder**



## Gas Law Practice Homework Packet:

**The Big Book of Chemistry Teacher Stories** Jeff Lark, Stories from years of teaching high school chemistry **The Science Teacher** ,2009 *American Journal of Physics* ,2005 **Curriculum Materials for Trade and Industrial Education** ,1961 Chemical Symbolism and Calculations Stanley Wallace Morse,1953 **Vocational Division Bulletin** ,1960 **Building a Web Site For Dummies** David A. Crowder,2004-07-26 The only book that walks the reader through designing building publishing publicizing and updating a Web site without focusing on a specific tool Now updated to cover the latest Web building tools and techniques including building a site for eBay items collecting money with PayPal updating via a blog and improving a site s search engine success Guides readers through every aspect of creating and maintaining a site from designing around a theme and adding content from other sources to keeping a site current and collecting comments from site users Includes a CD ROM filled with trial *Vocational Education Bulletin* United States. Division of Vocational Education,1961 *The Weekly Notes* ,1917 *The software catalog microcomputers* Menu (Firm) (Fort Collins, Colo.),1989 Bradstreet's Weekly ,1891 **The Solicitors' Journal and Weekly Reporter** ,1912 **The Solicitors' Journal and Reporter** ,1900 **Hand-book of All the Decisions of the Supreme Court of the United States** Henry De Forest Clarke,1899 *Who's who in Finance, Banking, and Insurance* ,1911 **The National Corporation Reporter** ,1891 *Gould's Annual Digest of New York Reports* ,1884 The American Corporation Legal Manual ,1903 **Electricity** ,1901 **Pennsylvania State Reports** Pennsylvania. Supreme Court,1901 Containing cases decided by the Supreme Court of Pennsylvania varies

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