

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

A Loxley



Gas Law Practice Homework Packet:

Gas Law Practice Homework Packet Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Gas Law Practice Homework Packet**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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