

## Chemistry – Gas Laws ACT Questions [USE TO STUDY FOR YOUR TEST]

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. At  $22^{\circ}\text{C}$ , the air pressure in a car tire is 1293 torr. Convert this pressure to atmospheres (atm).
- 12.76
  - 5.262
  - 1.701
  - 1.293

2. This diagram shows a closed-end mercury (Hg) barometer.



barometer.

When atmospheric pressure is 1.30 atm, what is the height ( $h$ ), in millimeters, of the Hg in the barometer?

- 132
  - 585
  - 760
  - 988
3. A chemist compresses a 1.5 L sample of carbon dioxide ( $\text{CO}_2$ ) gas at 1.2 atm to a final volume of 0.75 L. Assuming the temperature is constant, what is the final pressure, in atm, exerted by the  $\text{CO}_2$  gas?
- 0.60
  - 0.94
  - 1.7
  - 2.4
4. A vessel connected to an open-end mercury (Hg) manometer contains nitrogen ( $\text{N}_2$ ) gas. The atmospheric pressure is 0.993 atm. The height difference between the two arms of the manometer



is 122 mm.

What is the pressure, in mm Hg, of the  $\text{N}_2$  gas?

- 355
- 633

- 755
- 877

5. At 1.00 atm, a sealed weather balloon contains 20.0 L of helium (He) gas at  $25.0^{\circ}\text{C}$ . Assume that none of the He escapes and the pressure is constant. What is the volume, in liters, of He in the weather balloon at  $35.0^{\circ}\text{C}$ ?

- 40.0
- 28.0
- 20.7
- 14.3

6. At 1254 m above sea level, the city of Helena, Montana, has an average atmospheric pressure of 0.859 atm. A chemistry student in Helena finds that pure distilled water boils at  $95.9^{\circ}\text{C}$ . Which statement explains the student's results at this high elevation?

- The boiling point of water increases due to lower atmospheric pressure.
- The boiling point of water increases due to higher atmospheric pressure.
- The boiling point of water decreases due to lower atmospheric pressure.
- The boiling point of water decreases due to higher atmospheric pressure.

7. For a chemistry homework assignment, Beth must consider the effusion rates of methane ( $\text{CH}_4$ ) gas and nitrogen trifluoride ( $\text{NF}_3$ ) gas at  $25^{\circ}\text{C}$ . Effusion occurs as gas particles escape from a container through a small hole. Which statement accurately compares the effusion rates of  $\text{CH}_4$  and  $\text{NF}_3$  at  $25^{\circ}\text{C}$ ?

- $\text{CH}_4$  effuses 2 times faster than  $\text{NF}_3$ .
- $\text{CH}_4$  effuses 4 times faster than  $\text{NF}_3$ .
- $\text{NF}_3$  effuses 2 times faster than  $\text{CH}_4$ .
- $\text{NF}_3$  effuses 4 times faster than  $\text{CH}_4$ .

8. At standard temperature and pressure, a chemist burns 3.50 L of pentane ( $\text{C}_5\text{H}_{12}$ ) in excess oxygen ( $\text{O}_2$ ) gas.
- $$\text{C}_5\text{H}_{12}(l) + 8 \text{O}_2(g) \rightarrow 5 \text{CO}_2(g) + 6 \text{H}_2\text{O}(l)$$
- What is the maximum number of liters of carbon dioxide ( $\text{CO}_2$ ) that the reaction can produce?

- 17.5
- 8.50
- 5.60
- 0.700

# Sample Test Questions On Gas Laws

**Emilie Sanchez**



## **Sample Test Questions On Gas Laws:**

Sample Test Questions On Gas Laws: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Sample Test Questions On Gas Laws :

Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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