

Answers to the Gases Review Sheet

1. 3.21 mm Hg = 0.321 cm Hg = 0.00422 atm
2. 6.9 kPa = 6900 Pa = 52 mm Hg
3. 436 mm Hg = 0.574 atm = 58.1 kPa
4. 2.9 kPa = 22 torr = 22 mm Hg
5. A sample of air has a volume of 2.25 cm³ when its temperature is 298 K. If the temperature is increased to 373 K without changing the pressure, what is the new volume of the sample in air?

$$\begin{aligned} V_1 &= 2.25 \text{ cm}^3 & \frac{V_1}{T_1} &= \frac{V_2}{T_2} & V_2 &= \frac{V_1 T_2}{T_1} \\ T_1 &= 298 \text{ K} \\ T_2 &= 373 \text{ K} \\ V_2 &= x \end{aligned}$$

Charles's

$$V_2 = \frac{2.25 \text{ cm}^3 (373 \text{ K})}{298 \text{ K}} = \mathbf{2.82 \text{ cm}^3}$$

6. As the temperature of a sample of nitrogen increases from 273 K, the volume of the sample changes from 275 mL to 325 mL. Assuming the pressure is constant, what is the final temperature of the gas?

$$\begin{aligned} V_1 &= 275 \text{ mL} & \frac{V_1}{T_1} &= \frac{V_2}{T_2} & T_2 &= \frac{T_1 V_2}{V_1} \\ T_1 &= 273 \text{ K} \\ T_2 &= x \\ V_2 &= 325 \text{ mL} \end{aligned}$$

Charles's

$$T_2 = \frac{325 \text{ mL} (273 \text{ K})}{275 \text{ mL}} = \mathbf{323 \text{ K}}$$

7. The pressure of a 5.71 L sample of neon gas is 23.4 kPa. Calculate the new pressure when the volume becomes 3.40 L.

$$\begin{aligned} V_1 &= 5.71 \text{ L} & P_1 V_1 &= P_2 V_2 & P_2 &= \frac{P_1 V_1}{V_2} \\ P_1 &= 23.4 \text{ kPa} \\ P_2 &= x \end{aligned}$$

$$P_2 = \frac{5.71 \text{ L} (23.4 \text{ kPa})}{3.40 \text{ L}} = \mathbf{39.3 \text{ kPa} = 0.388 \text{ atm}}$$

Boyle's

Gases And Pressure Section Review Answers

Xiang Xie



Gases And Pressure Section Review Answers:

Adopting the Song of Term: An Emotional Symphony within **Gases And Pressure Section Review Answers**

In a global eaten by displays and the ceaseless chatter of quick conversation, the melodic beauty and psychological symphony created by the written term usually disappear in to the background, eclipsed by the persistent sound and interruptions that permeate our lives. But, set within the pages of **Gases And Pressure Section Review Answers** a wonderful fictional prize filled with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, that interesting masterpiece conducts viewers on an emotional journey, well unraveling the hidden songs and profound impact resonating within each cautiously constructed phrase. Within the depths of this touching analysis, we will examine the book is central harmonies, analyze its enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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