



$$p_1 = 1.0 \times 10^5 \text{ Pa}$$

$$V_1 = V_1 \text{ cm}^3$$

$$V_2 = \frac{1}{5} V_1 \text{ cm}^3$$

Step 2: Write down the formula and re arrange if necessary.

$$p_1 V_1 = p_2 V_2 \text{ or}$$

$$p_2 = \frac{p_1 \times V_1}{(1/5)V_1}$$

Step 3: Put the values in formula and calculate.

$$p_2 = \frac{1.0 \times 10^5 \text{ Pa} \times V_1 \text{ cm}^3}{(1/5)V_1 \text{ cm}^3} = 5.0 \times 10^5 \text{ Pa}$$

So, the final pressure is now $5.0 \times 10^5 \text{ Pa}$.

Self Assessment Questions:

Q7: Draw diagrams of the molecules in a gas to explain the effect of pressure change on its volume.

Q8: What is the meant by the subscripts 1 and 2 in the equation, $p_1 V_1 = p_2 V_2$?

Q9: What is the effect of temperature on average translational kinetic energy of molecules?



Do You Know!

An important feature of the equation $p_1 V_1 = p_2 V_2$ is that it does not matter what units we use for p and V , as long as we use the same units for both values of p (for example Pa, kPa or atmosphere etc), and the same units for both values of V (for example m^3 , dm^3 or cm^3 etc)



Do You Know!

when gas is compressed, volume decreases and the pressure increases.

Unit 7 Physics

Joacim Rocklöv



Unit 7 Physics:

Reviewing **Unit 7 Physics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Unit 7 Physics**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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