

1. The first step is to identify the variables that are relevant to the problem.

Variable	Definition	Unit	Value
T	Temperature	$^{\circ}\text{C}$	25
P	Pressure	atm	1
V	Volume	L	1
n	Number of moles	mol	1
R	Gas constant	$\text{J mol}^{-1} \text{K}^{-1}$	8.314
ΔT	Change in temperature	$^{\circ}\text{C}$	10
ΔP	Change in pressure	atm	0.1
ΔV	Change in volume	L	0.1
Δn	Change in number of moles	mol	0.1
ΔR	Change in gas constant	$\text{J mol}^{-1} \text{K}^{-1}$	0.1

2. The second step is to identify the relevant physical properties of the system.

The relevant physical properties of the system are:

- Temperature: $T = 25^{\circ}\text{C}$
- Pressure: $P = 1 \text{ atm}$
- Volume: $V = 1 \text{ L}$
- Number of moles: $n = 1 \text{ mol}$
- Gas constant: $R = 8.314 \text{ J mol}^{-1} \text{K}^{-1}$

3. The third step is to identify the relevant physical processes.

3.1. The first process is the change in temperature.

The change in temperature is $\Delta T = 10^{\circ}\text{C}$.

3.2. The second process is the change in pressure.

The change in pressure is $\Delta P = 0.1 \text{ atm}$.

3.3. The third process is the change in volume.

The change in volume is $\Delta V = 0.1 \text{ L}$.

3.4. The fourth process is the change in number of moles.

The change in number of moles is $\Delta n = 0.1 \text{ mol}$.

4. The fourth step is to identify the relevant physical quantities.

Quantity	Definition	Unit	Value
T	Temperature	$^{\circ}\text{C}$	25
P	Pressure	atm	1
V	Volume	L	1
n	Number of moles	mol	1
R	Gas constant	$\text{J mol}^{-1} \text{K}^{-1}$	8.314

5. The fifth step is to identify the relevant physical quantities.

The relevant physical quantities are:

- Temperature: $T = 25^{\circ}\text{C}$
- Pressure: $P = 1 \text{ atm}$
- Volume: $V = 1 \text{ L}$
- Number of moles: $n = 1 \text{ mol}$
- Gas constant: $R = 8.314 \text{ J mol}^{-1} \text{K}^{-1}$



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