<u>Avogadro's Hypothesis - One</u> <u>Problem</u>

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A gas has a volume of 345ml and contains 2.05 mole. If the container leaks so that there is now 1.45mole of the gas, what is its new volume (in ml)?

$$V_{2} = V_{1} \left(\frac{n_{2}}{n_{1}} \right)$$

$$V_{2} = \left(\frac{345}{2} \right) \left(\frac{1.45}{2.05} \frac{m \cdot (e)}{m \cdot (e)} \right)$$

$$V_{2} = 244.0 \, ml$$

$$V_{2}^{2} = 244 \, ml$$

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