

Question #: 78014

**D is equal to the ideal gas constant.**

- A.  $R = 8.315 \text{ (Pa} \times \text{m}^3) / (\text{mole} \times \text{K})$
- B.  $R = 8.315 \text{ J} / (\text{mole} \times \text{K})$
- C.  $R = 0.0821 \text{ (L} \times \text{atm)} / (\text{mole} \times \text{K})$
- D. All of the Above
- E. None of the Above

Solution:

$$R = 8,315 \frac{\text{J}}{\text{mole} \times \text{K}} = 0,0821 \frac{\text{l} \times \text{atm}}{\text{mole} \times \text{K}};$$

$$\frac{\text{Pa} \times \text{m}^3}{\text{mole} \times \text{K}} = \frac{\text{H}/\text{m}^2 \times \text{m}^3}{\text{mole} \times \text{K}} = \frac{\text{H} \times \text{m}}{\text{mole} \times \text{K}} = \frac{\text{J}}{\text{mole} \times \text{K}}$$

Answer: D