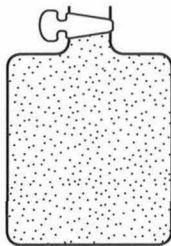


- 17 An ideal gas is held in a constant volume container fitted with a valve through which gas can escape.



Starting at 250K, the temperature of the gas is raised by 1000K while its pressure in the container is allowed to double.

What fraction of the original number of gas molecules escape through the valve?

A 0.4

B 0.5

C 0.6

D 0.9