

- 19 N molecules of a monatomic ideal gas are contained in a rigid box at pressure p and temperature T . An additional N molecules of the same gas are added to the box in such a way that the internal energy is kept constant at its original value.

Which of the following indicates the values of the temperature and pressure of the gas after the addition?

	<u>temperature</u>	<u>pressure</u>
A	$\frac{1}{2}T$	p
B	$\frac{1}{2}T$	$\frac{1}{2}p$
C	T	$2p$
D	T	p