

- 8 Boyle's law states that, under certain conditions, the pressure exerted by a gas is inversely proportional to the volume occupied by the gas.

Which of the following conditions is **not** necessary?

- ☐ A The gas must be ideal.
- ☐ B The mean kinetic energy of the molecules must stay constant.
- ☐ C The molecules in the gas must be identical.
- ☐ D The number of molecules in the gas must stay constant.

(Total for Question 8 = 1 mark)