

- 13** A container of helium gas shown below has two identical sections with a common wall between them which does not allow gas to leak through. The two sections contain helium gas of mass 2.0 g in compartment X and 1.0 g in compartment Y. The two halves of the container are at the same temperature. Which of the following is the same for the gas in the two sections X and Y?



- A** The number of collisions per second on the common wall
- B** The root mean square speed of the atoms
- C** The density of the helium
- D** The pressure exerted by the helium