6. . A box contains two compartments of equal volume separated by a divider. The two compartments each contain a random sample of n moles of a certain gas, but the pressure in compartment A is twice the pressure in compartment B. Which of the following statements is true? (A) The temperature in A is twice the temperature in B (B) The temperature in B is twice the temperature in A (C) The value of the ideal gas constant, R, in A is twice the value of R in B (D) The temperature in A is four times as great as the temperature in B (E) The gas in A is a heavier isotope than the gas in B