

- According to the Kinetic Molecular Theory, gas particles _____
- a. Exert strong attractive and repulsive forces on each other
- b. Have inelastic collisions
- c. All move in the same direction
- d. Have the same average kinetic energy if at the same temperature

Quarter 3 Cumulative Review Question 1 Answer • According to the Kinetic Molecular Theory, gas particles _____ a. Exert strong attractive and repulsive forces on each other b. Have inelastic collisions c. All move in the same direction d.) Have the same average kinetic energy if at the same temperature

- How many moles of carbon dioxide would you have in a 5.00 L container at 35.0°C and 1.22 atm?
 - a. 0.241 mol
 - b. 4.15 mol
 - c. 6.75 mol
 - d. 10.6 mol



Question 2 Answer

 How many moles of carbon dioxide would you have in a 5.00 L container at 35.0°C and 1.22 atm? PV = ORT

 $\frac{1.22atm \times 5.00L^{2} n \times 0261 \times 308K}{(.0821 \times 308K)}$

- a. 0.241 mol
- b. 4.15 mol
- c. 6.75 mol
- d. 10.6 mol









- A *decrease* in entropy is seen when
 - a. NaCl (s) is dissolved in water
 - b. $CaCO_3$ (s) forms CaO (s) and CO_2 (g)
 - c. Hydrogen gas and oxygen gas form liquid water
 - d. Water evaporates



- What is the molarity of a solution made with 2.50 g of sodium chloride dissolved in 125 mL of solution?
 - a. 20.0 M
 - b. 0.342 M
 - c. 0.0200 M
 - d. 3.42 x 10⁻⁴ M

Question 6 Answer

• What is the molarity of a solution made with 2.50 g of sodium chloride dissolved in 125 mL of solution? $W = \overline{W_{01}}$

2.50gNaCI InolNaCI = .0428 mol (58.442779NaCI .125L

- 0347M

- a. 20.0 M
- b. 0.342 M
- c. 0.0200 M
- d. 3.42 x 10⁻⁴ M

- How many milliliters of 12.0 M HCl are needed to make 500. mL of 2.50 M HCl?
 - a. 2400 mL
 - b. 104 mL
 - c. 16.7 mL
 - d. 0.0600 mL





