				76.8	<b>&gt;</b>
Name		AP Chen	1		Pa.
Chapter 5 Homes Circle and write the le		ver on the line for each of the	following.	77.4 M=	LET
1. S For the reaction above (A) 67.2 liters	(s) + 3 $F_2(g) \rightarrow SF_6(g)$ e at standard temperature (B) 33.6 liters	re and pressure, the volume of (C) 22.4 liters	f F <sub>2</sub> required to produce 0.30 (D) 11.2 liters	00 mole of SF <sub>6</sub> is: M = (2.	
3.00 atmospheres, the	partial pressure of the	helium gas is:	χ > /	ne total pressure of the system	is
(A) 0.500 atm	(B) 1.00 atm	(C) 1.50 atm	∜ J <sub>(D) 2.00 atm</sub>	(E) 2.50 atm	
3. The mass of the gas?	density of a certain gas	s was measured to be 2.68 gra	ms per liter at 3.00 atm. and	27°C. What is the molecular	
(A) 16.0	(B) 20.0	(C) 22.0	(D) 60.0	(E) 132 = N	
4. At t	he same temperature, t (B) 2	he RMS speed of O <sub>2</sub> gas is ho (C) 4	ow many times that of $SO_2$ g (D) .5	as ? (E) 25	
5. The (A) 1.3 gram/liter		at 25°C and 4.0 atmospheres (C) 3.2 gram/liter	pressure is approximately (D) 5.2 gram/liter	(E) 7.3 gram/liter	*
6. A h temperature of 0°C., a (A) CH <sub>2</sub>	ydrocarbon with an emand a volume of 2.00 lin (B) $C_2H_4$	apirical formula CH2 is found ters. A possible formula fo (C) C <sub>3</sub> H <sub>6</sub>	to have a mass of 5.01 gran r this hydrocarbon is: (D) C <sub>4</sub> H <sub>8</sub>	as at a pressure of 1.00 atm, a (E) $C_5H_{10}$	£
7. A so following values for the density of the	he gas will decrease?	s cooled from 50.0° C to 25.0 average distance between the		onstant volume. Which of the erage speed of the molecules.	27.7
(A) I only	(B) II only	(C) III only	(D) I and III	(E) II and III	1   2.00 6
	vith Kelvin temperature	rticles and container walls reset II. Inverse extly with the concentration of	ly with the volume of the co		5 087 500 800
(A) I only	(B) II only	(C) I and II only	(D) I, II, and III	(E) I and III only	13 50
	6.0g sample of solid C sure in the sealed bag?			final volume of 22.4 L at 0° C	. 5
(A) 380 mm Hg	(B) 507 mm Hg	(C) 760 mm Hg	(D) 1140 mm Hg	(E) 1520 mm Hg	380
		d helium gases containing 4.0 0 mm of Hg, what is the mass		total pressure of 800. mm Hg	. If
(A) 21.0 g	(B) 42.0 g	(C) 56.0 g	(D) 28.0 g	(E) 6.00 g	
11. The molecular weight of t	• .	vn gas is 4.20 grams per liter	at 3.00 atmospheres pressure	and 127 °C. What is the	ع دالا
(A) 14.6	(B) 46.0	(C) 88.0	(D) 94.1	(E) 138	X
	sure remains unchange	d, the final temperature of the	e gas is	ted until it occupies a volume	of VC
(A) 68 °C	(B) 120 °C	(C) 477 °C	(D) 677 °C	(E) 950. °C	148 110
	nydrocarbon gas with a ble formula for the hyd (B) C <sub>2</sub> H <sub>4</sub>	n empirical formula CH <sub>2</sub> has frocarbon is (C) C <sub>3</sub> H <sub>6</sub>	a density of 1.88 grams per (D) $C_4H_8$	liter at 0 °C and 1.00 $(E) C_5 H_{10}$	32
23.4 (188)	(22.4)	2 5	(4.2)(.0850C)(A	(00	5 8 1
016 42.56	J. 3	e Trail	3.	4	Rad

	<i></i>					
_	14	_ A compound is heated to prod	uce a gas whose molecula	r weight is to be deter	mined. The gas is colle	ected by
	displacing water	in a water-filled flask inverted in	a trough of water. Which	h of the following is n	ecessary to calculate th	ne molecular
		s, but does NOT need to be meas			(6) **	
	(A) Mass of the	compound used in the experiment (D) Barometric pressure				re of the water
	. promise	(D) Darometric pressure	(E	) Volume of water disp	placed from the flask	
1.00	15.	_ Hydrogen gas is collected over	r water at 24°C. The total	pressure of the sample	e is 755 millimeters of	mercury. At
	24°C, the vapor	pressure of water is 22 millimete	rs of mercury. What is the	partial pressure of th	e hydrogen gas?	morousy. The
	(A) 22 mm Hg	(B) 733 mm Hg	(C) 755 mm Hg	(D) 760 mm Hg	g (E) 777 mm	n Hg
	16	Which of the following is true	at the table of the control of the c	1 0	en.	
i i	16. VT	Which of the following is true ressure of the solid phase always	at the triple point of a pur	e substance?		
	(B) The tempera	ture is always 0.01 K lower that	the normal melting point.	of the fiquid phase.		.÷a
		nd gas phases of the substance al		ty and are therefore in	distinguishable.	NAMES
	(D) The solid ph	ase always melts if the pressure	ncreases at constant temp	erature.		
	(E) The liquid pl	hase always vaporizes if the press	sure increases at constant	temperature.		ч
	17 5	A hot-air balloon rises. Which	of the following is the be	et evaluation for this	observation?	3'6
	(A) The pressure	on the walls of the balloon incre	eases with increasing temp	perature.	ouser variour;	108
	(B) The differen	ce in temperature between the air	inside and outside the ba	lloon produces conve	ction currents.	00
	(C) The cooler a	ir outside the balloon pushes in o	n the walls of the balloon			5-80
		liffusion_of cooler air is less than		A STATE OF THE PARTY OF THE PAR	6 62 13	(0.09/18206)40
:	(E) The air densi	ity inside the balloon is less than	that of the surrounding at	T and the second	22347	
To an assess	18.	Which of the following gases	leviates most from ideal h	ehavior?	* 1	1 -
	(A) SO <sub>2</sub>	(B) Ne	(C) CH <sub>4</sub>	(D) N <sub>2</sub>	(E) H <sub>2</sub>	
		· 		**************************************		
	19. 19.	- NH <sub>4</sub> NO <sub>3</sub> (s) $-$	$N_2O(g) + 2H_2O(g)$	Transport	. 1 3777 370 1	
	completely accor	ble of NH <sub>4</sub> NO <sub>3</sub> (s) is placed in a 1 rding to the balanced equation ab	ove The total pressure in	the flask measured at	ated. NH <sub>4</sub> NO <sub>3</sub> decomposite who	oses ich of the
	following?	raing to the balanced equation to	ove. The total pressure in	the mask measured at	400 K is closest to wil	ich of the
	(A) 3 atm	(B) 1 atm	(C) 0.5 atm	(D) 0.1 atm	(E) 0.03 atr	n
ς.	· ~ ~	20 20				
	in the container i	Equal masses of He and Ne are	placed in a sealed contai	ner. What is the partic	al pressure of He if the	total pressure
	(A) 1 atm	(B) 2 atm	(C) 3 atm (E)	(D) 4 atm	(E) 5 atm	
				` ,		
	21	_At standard temperature and pr	essure, a 0.50 mol sample	of H <sub>2</sub> gas and a separ	ate 1.0 mol sample of	O2 gas have
	the same:	ecular kinetic energy	(D) 1 1	1	(5)	
	(A) average more	(D) effusion rate	(B) average molecula	r speed (E) density	(C) volume	
		(D) OLIVERY THE PROPERTY OF TH		(E) density	Ga	
	22.	_ Three gases in the amounts sho	wn in the table to the rigl	nt are added to a previ	ously A	
:	evacuated rigid to	ank. If the total pressure in the ta	nk is 3.0 atm at 25°C, the	partial pressure of N <sub>2</sub>	(g) in the tank	<u> </u>
	is closest to (A) 0.75 atm	(B) 0.50 atm	(C) 0.33 atm	(D) 0.25 -4	N <sub>2</sub>	0.25 mol
	(11) 0.75 acm	(D) 0.30 aun	(C) 0.33 aun	(D) 0.25 atm	(E) 0.17 atm	(38)
	23,	At 25°C, C <sub>2</sub> H <sub>6</sub> effuses at a rate	e of 0.55 mol/minute. Wh	ich gas would have a	rate of effusion approx	imately one V
į.	fast as fast?	30 ·	4 > 120	with temporal and a second of the second of	*	1
į ģ.	(A) He	(B) CH <sub>4</sub>	(C) NO	(D) $N_2O_3$	(E) $Cl_2O_3$	
**	24	_ An ideal gas in a rigid sealed o	container is bested from 2	- 9 4 8 NO. 4 20 K	16 17 18	= 119
	I. The density of		ge distance between molec		e average speed of the	
	Appendix of the second		,	71,111	a relage speed of the	morecures
	(A) I only	(B) III only	(C) I & II only	(D) I & III only	(E) I, II, &	Ш
	25.	What is the total manner of	2.00 1 677 ( ) 1.00		1 027 ( ) 14 0	
		What is the total pressure after a rigid 22.4 L container 273 K?	2.00 moles of H <sub>2</sub> (g), 1.00	mole of $O_2(g)$ , 2.00 i	moles of N <sub>2</sub> (g) and 1.0	0 mole CO <sub>2</sub> (g)
	(A) 760 mmHg	(B) 2280 mmHg	(C) 4560 mmHg	(D) 9120 mmHg	g (E) 63,500 i	nmHg
		· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , ,	` ,	3	
			1-6/11 NE	*X(Z73)	450	•
	± 4	. · · · · · · · · · · · · · · · · · · ·	LANCE	* * *		:
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	2		4160	:
			•			

Name			AP Chem		
Chapter	5 Homework #3				•
Circle and	write the letter of the co	orrect answer on the line for	each of the following.	•	
1.	<b>)</b>				
the followi		and the second s	s initial pressure double	ed and its temperatu	re held constant. Which of
	lume of the gas doubles	*	(B) The density of the	gas doubles	P.V.=P.V.
(C) The de	nsity of the gas halves	Finatia anavara efetta de 1	The size of the mo	olecules doubles	P.V. = P.V.
ı.	inc average	kinetic energy of the molec	ules doubles		Va = 1 Volum
2. (A) TI	A helium filled b	balloon rises. Which of the	following choices is th	e best explanation	for the phenomenon?
(A) The der	mary or me nemani time	I balloon is less than the surmer than the outside air.	rrounding air.	1	*\Q_
(C) Helium	molecules have greater	kinetic energy than the our	side air		4:2
(D) The pre	essure beneath the ballow	on is greater than the pressu	ire above the balloon		
(E) The mo	lecules are small enoug	h to effuse rapidly, causing	the balloon to rise.		
3		$C_3H_7OH(s) \rightarrow H_2O(g) + C_3H_3OH(s)$	S-H-(9)	2010×14	1/16 = 0.20 m/s
A chemist p	places 0.10 moles of C <sub>3</sub> I	I <sub>2</sub> OH(s) in a 2.0 L flask T	he flask is heated and (	C <sub>3</sub> H <sub>7</sub> OH(s) decomp	
	above. The flask's ten	uperature is 500. K; carcula	te the approximate tota	l pressure in the fla	$sk. \wedge (x) \otimes (x)$
(11) 0.0 (41)	*	( ) =		- C - /	
4	Two flexible con	tainers for gases are at the	ame temperature and p	ressure. One holds	0.50 gram of hydrogen and
the other ho	Tab old Simila of Oxygen	L WHIGH OF THE TOHIOWING C	Catemante recording a the	100 000 1 ' T	ALSE? So
*x⊃2 inc nm	nder of molecules in the	ntainer is the same as the very hydrogen container is the	same as the number of	ontainer.	.00
	isity of the namosen sat	lible is less than that at the	avvoen cample		
ine ave	rage kinetic energy of t	he hydrogen molecules is th	e same as the average	kinetic energy of th	e oxygen molecules.
		gen molecules is the same a	•		
5	As the temperatur	re is raised from $20^{\circ}$ C to $40^{1/2}$	°C, the average kinetic	energy of neon ato	ms changes by a factor of
(A)	(B) (313,	/293) <sup>112</sup> (C) 313/2	293 (D) 2	2 .	(E) 4
6	Which of the follo	owing is the same for one n	nole samples of ideal m	onstomic cases of a	ton doubters 1
pressure?			received	onatonne gases at s	tandard temperature and
(A) Ine tota	al kinetic energy of the puber of collisions per se	molecules	B The dens	ity of the sample	
	e."	cond of molecules with the	speed of the molecules	age speed of the mo	lecules
	-				•
conditions v	At 25 °C, a sample which of the following a	e of NH <sub>3</sub> (molar mass 17 gr	ams) effuses at the rate	of 0.050 mole per	minute. Under the same
(A) $O_2$ (mola	ar mass 32 grams)	ases effuses at approximate (B) He (molar mass)	ny one-hair that rate? #	model 2D NF	<b>A</b>
4 € 1 € 1 € 1 € 1 € 1 € 1 € 1 € 1 € 1 €	(D) Cl <sub>2</sub> (molar ma		(E) CH <sub>4</sub> (molar mass 16	6 grams)	mass 44 grams)
8 C	A rigid metal tank				
oxygen is ad	and at complaint tempera	contains oxygen gas. Which	ch of the following app.	lies to the gas in the	tank when additional
The volu	me of the gas increase.		(B) The pressu	re of the gas decrea	ises.
(C) The aver	age speed of the gas mo	lecules remains the same.	The total r	number of gas mole	cules remains the same.
		The average distance			
following val	A sample of an ide tues for the gas will dec	eal gas is cooled from 50.0 rease?	°C to 25.0 °C in a seale	ed container of cons	tant volume. Which of the
- 1	I. The average mol	ecular mass of the gas 🌙	I. The average distance	between the molec	cules
		III. The average sp	eed of the molecules		. 4
\) I only	(B) II only	(C) III only	(D) I and III	(E) II and III	

からない。 中子と機能を発音し、 ・

				. 🔿	<u> </u>
		(Z)	X.1.) = N		24,200
4.7		1.08	X.L) = N X28 7)		29
2. 3	A 0.239 g sample of a gas in a	100-mL flask exerts	a pressure of 1520 mmHg	g at 14 °C. What is the g	as?
(A) chlorine	(B) nitrogen	(C) krypton	(D) xenon	(E) oxygen	79
12	A sample of neon gas has a vo	Jume of 333 mL at 30	) °C and a certain pressure	e. What volume would i	t occupy if it
were heated to 60.	°C at the same pressure?	indine of 555 mis at 50	(D) 606 mL		. •
(A) 366 mL	(B) 399 mL	(C) 333 mL	303 (D) 666 mL	(E) 167 mL	Á
24	Hydrogen gas is collected ove	r water at 21°C. At 2	1°C the vapor pressure of	water is 18.7 torr. If the	ne barometric
	r what is the pressure of hydrog	gen gas?	3 B		
(A) 758 torr	(B) 777 torr	(C) 739 torr	(D) 48.2 torr	(E) 18.7 torr	Y3/(8-31//32
25.	Calculate the root mean square	e velocity of a sample	of 10.0 grams of helium	atoms at 55.0 °C.	V-CON
(A) 45.2 m/s	(B) 142 m/s	(C) 1010 m/s	(D) 1110 m/s	(E) 1430 m/	5) 125
. 25	When a sample of oxygen gas	in a closed container	of constant volume is hea	ated until its Celsius tem	perature is
doubled, which of	the following is also doubled?				
(A) The density o	f the gas (B) The pote	ential energy of the m	olecules (C) Th (E) None of the above	ne pressure of the gas	41328115
	(D) The average velocity of the	The Marie of the			32
27	Helium is often found with m	ethane, CH4. How do	the diffusion rates of heli	um and methàne compa	re at the same
temperature? Met	hane diffuses:	four times as fast as h	· · · · · · · · · · · · · · · · · · ·	nce as-fast as helium.	8200
(A) ½ as fast as h	(D) at the same rate as helium.		s fast as helium.		
and the same of th			1100		00 00 pp
28. (A) high P and lo	Under which conditions will a	a gas behave most ide low P and low T	ally? (C) lo	w P and high T	
(A) high r and to	(D) high P and high T	(E) a ga	as will behave ideally at a	ll conditions	050000
A STATE OF THE STA	Xenon gas initially at 35°C is	1 1 10507 : 0	alacad container Which	statement is correct?	
29. (-A) The average	Xenon gas mitially at 35°C is kinetic energy of the xenon atom	ms does not change.	(B) The average kinetic	e energy of the xenon ato	oms triples.
(C) The pressure	of the gas increases by 23 perc	ent.	The pressure of the	gas triples.	
Λ	(E) The pressure of the	he gas increases by ab	oout 8 percent.	20%	
30.	Which gas has a density of 2.	58 g L <sup>-1</sup> at 10.°C and	1.5 atm?	emade 19 5	CC
					The same of the sa
(A) Ar	(B) Ne	(c) co	(D) CH <sub>4</sub>	(E) Kr	
(A) AI	(B) Ne	(C) CO	(D) CH <sub>4</sub>	d CO. How do their ave	rage molecular
31. Speeds compare?	(B) Ne	(C) CO	(D) CH <sub>4</sub>	d CO. How do their ave	rage molecular
31. 3	(B) Ne	(C) CO	(D) CH <sub>4</sub>	d CO. How do their ave	rage molecular XGY) 19Z
31. Speeds compare?	(B) Ne  A gas mixture at 27°C and 76  CD) CO $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$	(C) CO  50 mm Hg contains 1. $O_2 < N_2 = CO < He$ He	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He $<$ O <sub>2</sub> $<$ CO $<$ N <sub>2</sub>	d CO. How do their average $CO = N_2 < C_2$	X(24) 192 BX213) 72.4
speeds compare? (A) He = $O_2$ = N	(B) Ne  A gas mixture at 27°C and 76  C = CO (D) CO < O2   N2 < H  Which of the following woul	(C) CO  50 mm Hg contains 1. $O_2 < N_2 = CO < He$ He	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He $<$ O <sub>2</sub> $<$ CO $<$ N <sub>2</sub>	d CO. How do their average $CO = N_2 < C_2$	X(24) 192 BX213) 72.4
speeds compare? (A) He = $O_2$ = N  32. (in grams per lite	(B) Ne  A gas mixture at 27°C and 76  2 = CO (D) CO < O <sub>2</sub> ₹ N <sub>2</sub> < F  Which of the following woul	(©) CO  50 mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approximation	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He $<$ O <sub>2</sub> $<$ CO $<$ N <sub>2</sub> mate density of sulfur dio	d CO. How do their average $28$ In $2 < O_2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	(3) 192 (3) 72.4 ) atm pressure
speeds compare? (A) He = $O_2$ = N	(B) Ne  A gas mixture at 27°C and 76  2 = CO (D) CO < O <sub>2</sub> ₹ N <sub>2</sub> < F  Which of the following woul	(©) CO  50 mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approximation	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He $<$ O <sub>2</sub> $<$ CO $<$ N <sub>2</sub> mate density of sulfur dio	d CO. How do their average $CO = N_2 < C_2$	(3) 192 (3) 223 (2) atm pressure
speeds compare? (A) He = $O_2$ = N  32.  (in grams per lite (A) 2.2 g/L	(B) Ne  A gas mixture at 27°C and 76  C = CO  (D) CO < O <sub>2</sub> ≤ N <sub>2</sub> < H  Which of the following woul  (B) 4.3 g/L  21 y(s) + 2HCl (aq) → H <sub>2</sub> (g	(C) CO  50 mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approxim  (C) 6.5 g/L	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H (E) He $<$ O <sub>2</sub> $<$ CO $<$ N  mate density of sulfur dio (D) 8.6 g/L	d CO. How do their average $28$ Le $<$ CO $=$ N <sub>2</sub> $<$ O <sub>2</sub> $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	(64) 192 8X233) 72.4 0 atm pressure
speeds compare?  (A) He = $O_2$ = N  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol	(B) Ne  A gas mixture at 27°C and 76  2 = CO (D) CO < O <sub>2</sub> ₹ N <sub>2</sub> < F  Which of the following woul	(C) CO  50 mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approxim  (C) 6.5 g/L	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H (E) He $<$ O <sub>2</sub> $<$ CO $<$ N  mate density of sulfur dio (D) 8.6 g/L	d CO. How do their average $28$ Le $<$ CO $=$ N <sub>2</sub> $<$ O <sub>2</sub> $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	(64) 192 8X233) 72.4 0 atm pressure
speeds compare? (A) He = $O_2$ = N  32.  (in grams per lite (A) 2.2 g/L	(B) Ne  A gas mixture at 27°C and 76  C = CO  (D) CO < O <sub>2</sub> ≤ N <sub>2</sub> < H  Which of the following woul  (B) 4.3 g/L  21 y(s) + 2HCl (aq) → H <sub>2</sub> (g	(C) CO  50 mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approxim  (C) 6.5 g/L	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H (E) He $<$ O <sub>2</sub> $<$ CO $<$ N  mate density of sulfur dio (D) 8.6 g/L	d CO. How do their average $28$ Le $<$ CO $=$ N <sub>2</sub> $<$ O <sub>2</sub> $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	(64) 192 8X233) 72.4 0 atm pressure
speeds compare?  (A) He = $O_2$ = N  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29.0 °C.	(B) Ne  A gas mixture at 27°C and 76  D CO < Q < N <sub>2</sub> < N  Which of the following woul  B 4.3 g/L  2Li(s) + 2HCl (aq) → H <sub>2</sub> (g  ume of Hydrogen produced if 3  (B) 13.0 L	(C) CO  for mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approxim  (C) 6.5 g/L  (C) 4.55 grams of Li react  (C) 3.25 L	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He $<$ O <sub>2</sub> $<$ CO $<$ N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L  with excess HCl if the pro-	d CO. How do their average $2.8$ It $e < CO = N_2 < O_2$ (3) $2.2$ xide gas at 0°C and 3.00 (E) 5.5 g/L essure is 0.98 atm and the (E) 89.8 L	atm pressure  2.3.4  ne temperature 2.0
speeds compare?  (A) He = $O_2$ = N  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29:0-°C. (A) 6.50 L  34.	(B) Ne  A gas mixture at 27°C and 76  B)  (D) CO < O <sub>2</sub> ≤ N <sub>2</sub> < H  Which of the following would  (B) 4.3 g/L  2Li(s) + 2HCl (aq) → H <sub>2</sub> (g  ume of Hydrogen produced if 3  (B) 13.0 L  Three balloons are each filled	(C) CO  60 mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approxim  (C) 6.5 g/L  (C) 4.2LiCl(aq)  5.55 grams of Li react  (C) 3.25 L  d to a volume of 40.0 ressure?	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He < O <sub>2</sub> < CO < N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L  with excess HCl if the pro (D) 44.9 L  L with Ar, Kr, and Xe, re	d CO. How do their average $28$ Les CO = $N_2 < O_2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	atm pressure  2.3.4  ne temperature 2.0
speeds compare?  (A) He = $O_2$ = N.  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29.0 °C. (A) 6.50 L  34.  under the same c (A) The balloons	(B) Ne  A gas mixture at 27°C and 76  B CO  (D) CO < O <sub>2</sub> < N <sub>2</sub> < H  Which of the following would be a significant of the fo	60 mm Hg contains 1. $O_2 < N_2 = CO < He$ He $O_2 < N_2 = CO < He$ $O_3 < O_2 < O_3 = O_3$ $O_4 < O_3 < O_3 = O_3$ $O_4 < O_3 < O_3 < O_3 = O_3$ $O_4 < O_3 < O_3 < O_3 < O_3$ $O_4 < O_3 < O_3 < O_3$ $O_4 < O_3 < O_3 < O_3$ $O_5 < O_5 < O_5$ $O_5 < O_$	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He < O <sub>2</sub> < CO < N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L  with excess HCl if the pro (D) 44.9 L  L with Ar, Kr, and Xe, re	d CO. How do their average $28$ Les CO = $N_2 < O_2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	atm pressure  23.4  ne temperature 20
speeds compare?  (A) He = $O_2$ = N.  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29.0 °C. (A) 6.50 L  34.  under the same c (A) The balloons	(B) Ne  A gas mixture at 27°C and 76  B (C) CO < O2 < N2 < H  Which of the following would at 21°C  (B) 4.3 g/L  2Li(s) + 2HCl (aq) → H <sub>2</sub> (gume of Hydrogen produced if 3  (B) 13.0 L  Three balloons are each filled conditions of temperature and prosecutions of temperature and prosecuti	60 mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approxim  (C) 6.5 g/L  3.55 grams of Li react  (C) 3.25 L  d to a volume of 40.0 ressure?  (B) All  (C) Th	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H (E) He < O <sub>2</sub> < CO < N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L with excess HCl if the pro (D) 44.9 L L with Ar, Kr, and Xe, re I gases have the same kinds agases will all effuse at the	d CO. How do their average $CO = N_2 < O_2$ (2)  a xide gas at 0°C and 3.00 (E) 5.5 g/L  essure is 0.98 atm and the (E) 89.8 L  espectively. Which states etic energy. the same rate.	atm pressure  2.3.4  ne temperature 2.0
speeds compare?  (A) He = $O_2$ = N.  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29.0 °C. (A) 6.50 L  34.  under the same c (A) The balloons	(B) Ne  A gas mixture at 27°C and 76  B = CO (D) CO < O <sub>2</sub> < N <sub>2</sub> < H  Which of the following would be a significant of the f	60 mm Hg contains 1. $O_2 < N_2 = CO < He$ He $O_3 < O_3 < O_4 < O_5$ He $O_4 < O_3 < O_4 < O_5$ He $O_4 < O_3 < O_4 < O_5$ He $O_4 < O_4 < O_5$ He $O_4 < O_4 < O_5$ He $O_4 < O_5 < O_6$ He $O_5 < O_6 < O_7$ He $O_6 < O_7$ He $O_6 < O_7$ He $O_6 < O_7$ He $O_7 < O_7$ He  He  He $O_7 < O_7$ He  He  He  He  He  He  He  He  He  H	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He < O <sub>2</sub> < CO < N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L  with excess HCl if the pro (D) 44.9 L  L with Ar, Kr, and Xe, re  I gases have the same kinds agases will all effuse at the same root mean square velocities.	d CO. How do their average $28$ Lessure is 0.98 atm and the spectively. Which states etic energy. The same rate. Ocity.	atm pressure  2.3.  ne temperature  ment is true
speeds compare?  (A) He = $O_2$ = N.  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29:0-°C. (A) 6.50 L  34.  under the same of (A) The balloons (C) The densities	(B) Ne  A gas mixture at 27°C and 76  B)  (D) CO < O; < N <sub>2</sub> < F  Which of the following woul  (B) 4.3 g/L  2Li(s) + 2HCl (aq) → H <sub>2</sub> (g  ume of Hydrogen produced if 3  (B) 13.0 L  Three balloons are each filled to conditions of temperature and prosecutions of temperature and prosecutions of the same mass of gas. So of the three gases are the same (E)  A flask contains 0.25 mole of the conditions of the same the same (E)	On mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approximation of the express the approximation of the express of Li react (C) 3.25 L  d to a volume of 40.0 ressure?  (B) All gases have the sale of $SO_2(g)$ , 0.50 mole of $SO_2(g)$	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He < O <sub>2</sub> < CO < N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L  with excess HCl if the pro (D) 44.9 L  L with Ar, Kr, and Xe, re all gases have the same kind he gases will all effuse at the same root mean square velous of CH <sub>4</sub> (g), and 0.50 mole of CH <sub>4</sub> (g).	d CO. How do their average $28$ Lessure is 0.98 atm and the spectively. Which states etic energy. The same rate. Ocity.	atm pressure  2.3.  ne temperature  ment is true
speeds compare?  (A) He = $O_2$ = N  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29.0-°C. (A) 6.50 L  34.  under the same of (A) The balloons (C) The densities  35.  in the flask is 80	(B) Ne  A gas mixture at 27°C and 76  B (D) CO < O <sub>2</sub> ≤ N <sub>2</sub> < I  Which of the following would  (B) 4.3 g/L  2Li(s) + 2HCl (aq) → H <sub>2</sub> (gume of Hydrogen produced if 3  (B) 13.0 L  Three balloons are each filled conditions of temperature and prosecutions of temperature and prosecutions of the three gases are the same  A flask contains 0.25 mole of mm Hg. What is the partial process.	On mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approximation of $O_2 < O_2 < O_2 = O_2 < O_$	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H  (E) He < O <sub>2</sub> < CO < N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L  with excess HCl if the pro (D) 44.9 L  L with Ar, Kr, and Xe, re l gases have the same kind he gases will all effuse at the ame root mean square velous of CH <sub>4</sub> (g), and 0.50 mole of the flask?	d CO. How do their average $28$ Les CO = $N_2 < O_2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	atm pressure  atm pressure  2.3  ne temperature 2.3  ment is true  ure of the gases
speeds compare?  (A) He = $O_2$ = N.  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29:0-°C. (A) 6.50 L  34.  under the same of (A) The balloons (C) The densities	(B) Ne  A gas mixture at 27°C and 76  B (D) CO < O <sub>2</sub> ≤ N <sub>2</sub> < I  Which of the following would  (B) 4.3 g/L  2Li(s) + 2HCl (aq) → H <sub>2</sub> (gume of Hydrogen produced if 3  (B) 13.0 L  Three balloons are each filled conditions of temperature and prosecutions of temperature and prosecutions of the three gases are the same  A flask contains 0.25 mole of mm Hg. What is the partial process.	60 mm Hg contains 1. $O_2 < N_2 = CO < He$ He $O_3 < O_3 < O_3$	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H (E) He < O <sub>2</sub> < CO < N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L with excess HCl if the pro (D) 44.9 L L with Ar, Kr, and Xe, re 1 gases have the same kind are gases will all effuse at the gases will a	d CO. How do their average $28$ Les CO = $N_2 < O_2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	atm pressure  atm pressure  2.3  ne temperature 2.3  ment is true  ure of the gases
speeds compare?  (A) He = $O_2$ = N  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29.0-°C. (A) 6.50 L  34.  under the same of (A) The balloons (C) The densities  35.  in the flask is 80	(B) Ne  A gas mixture at 27°C and 76  B (D) CO < O <sub>2</sub> ≤ N <sub>2</sub> < I  Which of the following would  (B) 4.3 g/L  2Li(s) + 2HCl (aq) → H <sub>2</sub> (gume of Hydrogen produced if 3  (B) 13.0 L  Three balloons are each filled conditions of temperature and prosecutions of temperature and prosecutions of the three gases are the same  A flask contains 0.25 mole of mm Hg. What is the partial process.	60 mm Hg contains 1. $O_2 < N_2 = CO < He$ He $O_3 < O_3 < O_3$	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H (E) He < O <sub>2</sub> < CO < N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L with excess HCl if the pro (D) 44.9 L L with Ar, Kr, and Xe, re 1 gases have the same kind are gases will all effuse at the gases will a	d CO. How do their average $28$ Les CO = $N_2 < O_2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	atm pressure  atm pressure  2.3  ne temperature 2.3  ment is true  ure of the gases
speeds compare?  (A) He = $O_2$ = N  32.  (in grams per lite (A) 2.2 g/L  33.  Calculate the vol is 29.0-°C. (A) 6.50 L  34.  under the same of (A) The balloons (C) The densities  35.  in the flask is 80	(B) Ne  A gas mixture at 27°C and 76  B (D) CO < O <sub>2</sub> ≤ N <sub>2</sub> < I  Which of the following would  (B) 4.3 g/L  2Li(s) + 2HCl (aq) → H <sub>2</sub> (gume of Hydrogen produced if 3  (B) 13.0 L  Three balloons are each filled conditions of temperature and prosecutions of temperature and prosecutions of the three gases are the same  A flask contains 0.25 mole of mm Hg. What is the partial process.	On mm Hg contains 1. $O_2 < N_2 = CO < He$ He  d express the approximation of $O_2 < O_2 < O_2 = O_2 < O_$	(D) CH <sub>4</sub> 0 g each of He, O <sub>2</sub> , N <sub>2</sub> and (C) H (E) He < O <sub>2</sub> < CO < N <sub>2</sub> mate density of sulfur dio (D) 8.6 g/L with excess HCl if the pro (D) 44.9 L L with Ar, Kr, and Xe, re 1 gases have the same kind are gases will all effuse at the gases will a	d CO. How do their average $28$ Les CO = $N_2 < O_2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	atm pressure  atm pressure  2.3.  ne temperature 2.0  ment is true  ure of the gases

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and the state of	**				1 7
a a k	*				\
Onestions 36-3	8 refer to the following gas	ses at 0°C and 1 atm	- A	30	221
(A) Ne 20.2	· (B) Xe	(C) O,	(D) CO	(E) NO	
21)	h #75		(D) CO	(D) 110	
36	Han an ayaraga atamia	or molecular speed closest to	that of N. malamlar	at 0°C and 1 atm	1797
36	_ ras an average atomic	or molecular speed closest to	mat of N <sub>2</sub> molecules	ato Cana Lam.	11.
	Has the greatest density				
37	_ Has the greatest density	y			
38.	Use the greatest rate of	effusion through a pinhole.		8.8 3	· · · · · · · · · · · · · · · · · · ·
38	_ Has the greatest rate of	enusion unough a phinoic.		<b>"7.</b> /	Creake-V-
* 30	A 2 L container will be	old about 4 g of which of the f	ollowing gases at 0°C	and 1 atm?	5 (108(547)
(A) SO.	(B) N <sub>2</sub>	(C) CO;	(D) $C_{A}H_{g}$	(E) NH <sub>3</sub>	V.
(A) 00 <sub>2</sub>	$(D) \mathcal{M}_2$	(C) CO <sub>2</sub> ;	$(D) C_{4} C_{8}$	(L) 1111 <sub>3</sub>	1- Van U
* 40	***************************************				(3 Vra)
40.	_	gasses shows most ideal beh			CLX.GXI
(A) Ar	(B) $Cl_2$	(C) He	(D) CH <sub>4</sub>	$(E) O_2$	علاها المالية
1100	A4	14.4	6		7844 Carres
41,	At approximately what	temperature will 40. Grams of	or argon gas at 2.0 atm	occupy avolume of	(22.4 L?**)
(A), 1,200 K	(B) 600 K	(C) 550 K	(D) 270 K	(E) 140 K	
12		$8H_2(g) + S_8(s) \rightarrow 8H_2S(g)$	25.6 \ \ 8	(. X X .)	08 (CF3) W
42. \(\sigma\)	C (a) ranata aam-1-t-1	$8H_2(g) + S_8(s) \rightarrow 8H_2S(g)$ with an excess of $H_2(g)$ according	ling to the SSE	have the value of	LI C(a) magazini
		un an excess of H <sub>2</sub> (g) accord	ing to the equation a	bove, the volume of	*H <sub>2</sub> S(g), measured at
A CONTRACTOR OF THE CONTRACTOR	m, produced is closest to:	/C) 10 I	(D) 5 I	(E) 0 I	
(A) 30 L	(B) 20 L	(C) 10 L	(D) 5 L	(E) 2 L	
43.	At which of the follow	ring temperatures and pressure	oo waald a	Temperature (K)	Pressure (atm)
·	At which of the follow likely to deviate from idea		(A)	100	50
Teal gas be most	likely to deviate from idea	ar behavior?	(B)	200	5
					0.01
		**************************************	(C)	300	
		7110	PER TAPAN STREET		
			(D)	500	0.01
			(D) (E)	500 500	0.01
44. ]	Of the following gases.	which has the greatest average	(E)	500	
,		which has the greatest avera;	(E) ge molecular speed at	500 298 K?	
44. (A) Cl <sub>2</sub> (g)	Of the following gases, (B) NO(g)	, which has the greatest average $(C)$ $H_2S(g)$	(E)	500 298 K?	
,	(B) NO(g)	$(C)$ $H_2S(g)$	(E) ge molecular speed at (D) HCN(g)	500 298 K? (E) PH <sub>3</sub> (g)	*-1
(A) Cl <sub>2</sub> (g)	(B) NO(g)	(C) H <sub>2</sub> S(g) nas a volume of 248 mL at 30	ge molecular speed at (D) HCN(g)  °C and a certain press	500  298 K? (E) PH <sub>3</sub> (g)  sure. What volume v	*-1
(A) Cl <sub>2</sub> (g)	(B) NO(g)  A sample of neon gas h  0.°C at the same pressure?	(C) H <sub>2</sub> S(g) nas a volume of 248 mL at 30	(E) ge molecular speed at (D) HCN(g)	500  298 K? (E) PH <sub>3</sub> (g)  sure. What volume v	*-1
(A) Cl <sub>2</sub> (g) 45. Swere heated to 6	(B) NO(g)  A sample of neon gas h  0.°C at the same pressure (B) 273 mL  (C) 27	(C) H <sub>2</sub> S(g)  nas a volume of 248 mL at 30  8 mL (D) 496 mL	ge molecular speed at (D) HCN(g)  °C and a certain press (E) 124 mL	500  298 K? (E) PH <sub>3</sub> (g)  sure. What volume v	*-1
(A) Cl <sub>2</sub> (g) 45 were heated to 6 (A) 226 mL	(B) NO(g)  A sample of neon gas h  0.°C at the same pressure (B) 273 mL (C) 27  A gas is collected in the	(C) H <sub>2</sub> S(g)  nas a volume of 248 mL at 30  8 mL (D) 496 mL  e flask shown here. What is the	ge molecular speed at (D) HCN(g)  °C and a certain press (E) 124 mL	500  298 K? (E) PH <sub>3</sub> (g)  sure. What volume v	1
(A) Cl <sub>2</sub> (g)  45.  were heated to 6  (A) 226 mL  46.  if the atmospher	(B) NO(g)  A sample of neon gas h  0.°C at the same pressure (B) 273 mL (C) 27  A gas is collected in the ic pressure is 735 mm Hg?	(C) H <sub>2</sub> S(g)  has a volume of 248 mL at 30  8 mL (D) 496 mL  e flask shown here. What is the	ge molecular speed at (D) HCN(g)  °C and a certain press (E) 124 mL	500  298 K? (E) PH <sub>3</sub> (g)  sure. What volume v	would it occupy if it
(A) Cl <sub>2</sub> (g)  45.  were heated to 6  (A) 226 mL  46.  if the atmospher	(B) NO(g)  A sample of neon gas h  0.°C at the same pressure (B) 273 mL (C) 27  A gas is collected in the ic pressure is 735 mm Hg?	(C) H <sub>2</sub> S(g)  nas a volume of 248 mL at 30  8 mL (D) 496 mL  e flask shown here. What is the	ge molecular speed at (D) HCN(g)  °C and a certain press (E) 124 mL	298 K? (E) PH <sub>3</sub> (g) sure. What volume v	would it occupy if it
(A) Cl <sub>2</sub> (g)  45.  were heated to 6  (A) 226 mL  A6.  if the atmospher  (A) 42 mmHg	(B) NO(g)  A sample of neon gas had a same pressure.  (B) 273 mL (C) 27  A gas is collected in the ic pressure is 735 mmHg?  (B) 693 mmHg (C) 73	(C) H <sub>2</sub> S(g)  has a volume of 248 mL at 30  8 mL (D) 496 mL  e flask shown here. What is the same of t	ge molecular speed at (D) HCN(g)  °C and a certain press (E) 124 mL  ne pressure exerted by (E) 84 mmHg	500  298 K? (E) PH <sub>3</sub> (g)  sure. What volume very the gas	would it occupy if it
(A) Cl <sub>2</sub> (g)  45.  were heated to 6  (A) 226 mL  46.  if the atmospher  (A) 42 mmHg  47.	(B) NO(g)  A sample of neon gas how the same pressure (B) 273 mL (C) 27  A gas is collected in the pressure is 735 mmHg?  (B) 693 mmHg (C) 73  A sample of oxygen gas	(C) H <sub>2</sub> S(g)  nas a volume of 248 mL at 30  8 mL (D) 496 mL  e flask shown here. What is the flask shown here what is the flask shown here what is the flask shown here.	ge molecular speed at (D) HCN(g)  °C and a certain press (E) 124 mL  ne pressure exerted by (E) 84 mmHg  n gas are weighed sep	298 K? (E) PH <sub>3</sub> (g) sure. What volume very gas arately in the same of	would it occupy if it    42 mmRg     evacuated flask. Use
(A) Cl <sub>2</sub> (g)  45.  were heated to 6 (A) 226 mL  46.  if the atmospher (A) 42 mmHg  47.  the data given to	(B) NO(g)  A sample of neon gas had not been described as the same pressure?  (B) 273 mL (C) 27  A gas is collected in the ic pressure is 735 mmHg?  (B) 693 mmHg (C) 73  A sample of oxygen gas of find the molar mass of the	(C) H <sub>2</sub> S(g)  has a volume of 248 mL at 30  8 mL (D) 496 mL  e flask shown here. What is the same of t	ge molecular speed at (D) HCN(g)  °C and a certain press (E) 124 mL  ne pressure exerted by (E) 84 mmHg  n gas are weighed sep	298 K? (E) PH <sub>3</sub> (g) sure. What volume very gas arately in the same of	would it occupy if it    42 mmRg     evacuated flask. Use
(A) Cl <sub>2</sub> (g)  45.  were heated to 6 (A) 226 mL  46.  if the atmospher (A) 42 mmHg  47.  the data given to  Mass of evacuate	(B) NO(g)  A sample of neon gas have the same pressure (B) 273 mL (C) 27  A gas is collected in the collecte	(C) H <sub>2</sub> S(g)  has a volume of 248 mL at 30  8 mL (D) 496 mL  6 flask shown here. What is the flask shown here what is the flask shown here what is the flask shown here what is the flask shown here. What is the flask shown here what is the flask shown here. What is the flask shown here what is the flask shown here. What is the flask shown here what is the flask shown here. What is the flask sho	ge molecular speed at (D) HCN(g)  °C and a certain press (E) 124 mL  ne pressure exerted by (E) 84 mmHg  n gas are weighed sep	298 K? (E) PH <sub>3</sub> (g) sure. What volume very gas arately in the same of	would it occupy if it    42 mmRg     evacuated flask. Use
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