Chemist	try: Gas Laws Pract	tice	Name: _					
Match e	ach example below	with the a	ppropria	te gas property	it illustrates.			
	1. the fragrance of perfume spreather.  through the room		ads a.	compressibility				
2. smog forms over summer days		lanta during	g b.	diffuses through	other gases			
3.	a cylinder of oxygen used in a hospital		C.	c. exerts pressure				
			d.	. fills container				
4.	a balloon is inflated	with helium	e.	has mass				
5. a balloon filled with air weighs more than an empty balloon								
Match th	ne variables used to	describe	gases to	the correct unit	t.			
7.	kPa	11. m	nm Hg	a.	pressure			
8.	°C	12. a	tmospher	res (atm)				
9.	mL	13. L		b.	temperature			
10.	K	14. °F	F	C.	volume			
Complete the following statements by writing "decreases," "increases," or "remains the same" on the line provided. As a gas is compressed in a cylinder,								
15. its mass								
16. the number of gas molecules								
17. its pressure								
18. its volume								
19. the distance between gas molecules								
20. its	20. its density							

	<b>letic molecular theory b</b> y kinetic energy			the list below.				
	pressure	random motion	zero					
22.	Gas particles exert		on one	another.				
23.	Gas molecules are said	to be in	·					
24.	The volume of gas particles themselves is said to be							
25.	The collisions between gas particles are							
26.	The temperature of a gas is a measure of the average of the							
	gas particles.							
Ма	th Problems							
27.	A 7.0 liter balloon at roor balloon is carried outside balloon occupy?	•						
28.	A 5.0 liter tank of oxygen be available if the oxyge	•		e of oxygen will				
29.	A 500 liter volume of helitemperature of 300K. As exerted by this gas at sta	ssuming the volume i	s kept constant, what is					
	Nitrogen (80 kPa), oxyger (2.0 kPa) are the usual at a. What is the total atmos	mospheric componer	nts.	d water vapor				
	b. Which gas (nitrogen, o	xygen, carbon dioxid	e, or water vapor) mole	ecules would				

you expect to be moving the fastest? Why?

Compete the following statements about the nature of gases as presented in the