WKS-	Honors
Real	Gases

NAME		
Period	Date	

Re-read pp. 303-306 in the text and answer the following questions.

1.	Gases deviate from ideal behavior when the pressure is (very low, very high). What TWO assumptions of KMT are no longer valid under your selected condition of pressure?
2.	Gases deviate from ideal behavior when the temperature is (very low, very high). What happens to the particles under your selected condition?
3.	Which of the following gases would you expect to deviate most from ideal behavior: He, $O_2$ , $H_2$ , $H_2O$ , $N_2$ , $HCl$ , $NH_3$ ? Explain.
Fo	or each statement below, write <i>true</i> or <i>false</i> . If it is false, change the statement to make it true.
	4. An ideal gas is one whose particles take up space.
	5. At low temperatures, ideal gases liquefy.
_	6. In the real world, gases consisting of small molecules are the only gases that are truly ideal.
_	7. Most gases behave like ideal gases at many temperatures and pressures.
	8. No intermolecular attractive forces exist in a real gas.
	9. Nonpolar gas molecules behave more like ideal gases than do gas molecules that are polar.
	10. Real gases deviate most from ideal gas behavior at high pressures and low temperatures.
	11. The smaller the gas molecule, the more the gas behaves like an ideal gas.