11]	What are the four postulates of kinetic theory?
	2]
	3]
	4]
12]	How does kinetic theory explain Boyle's Law??
13]	List the equation that relates temperature to the average kinetic energy of gas molecules.
<u>Care</u>	fully study the examples on P 401
14]	 a) What is the average kinetic energy of an oxygen molecule at STP? b) What is the total translational kinetic energy of 1 mole of O₂ molecules at 20 deg C? (5.65 x 10⁻²¹ J, 3650 J)
15]	Calculate the rms speed of helium atoms near the surface of the sun at a temperature of about 6000 deg K. (6120 m/s)

16] A gas is at 20 deg C. To what temperature must it be raised to double the rms speed of its molecules? (899 deg C)

17] What is the rms speed of nitrogen molecules contained in an $8.0~\text{m}^3$ volume at 2.1 atm if the total amount of nitrogen is 1300 mol? (375 m/s)