• Explain in terms of their electronic configurations and ionisation energies why the alkali metals (Group 1) are powerful <i>reducing</i> agents.	Marks 2
• The half-life for the first order decomposition of $N_2O_5(g)$ is 6.00×10^4 s at 20 °C. Calculate the rate constant, k , at this temperature.	
k =	
What percentage of the N ₂ O ₅ molecules will have reacted after one hour?	
ANSWER:	