



## ***In Class Exercises (ICE) - 11/6/00***

***Atmospheric physicists at the University of Auckland measure the amount of ozone in the atmosphere over New Zealand by sending up balloons with ozone detectors attached. Some of their average annual readings are shown in the table below.***

Year	1985	1986	1988	1994	1995
Ozone (ppm)	50	47.5	42.87	31.51	29.94

- ***What kind of function (linear or exponential) does the best job of representing the data?***

- ***Using whichever function you think most appropriate, what were the ozone levels when the Treaty of Waitangi was signed in 1840? Do you think the number you get is valid or not?***

- ***Health experts estimate the when ozone levels reach 22 ppm, the incidence of skin cancer will increase dramatically. When do you think this will happen?***