The mass, in kilograms, of a species of fish in the UK has population mean 4.2 and standard 10 deviation 0.25 An environmentalist believes that the fish in a particular river are smaller, on average, than those in other rivers in the UK A random sample of 100 fish of this species, taken from the river, has sample mean 4.16 kg. Stating a necessary assumption, test at the 5% significance level whether the environmentalist is correct. [8]