(a)	Find the probability that a randomly chosen cyclist has a time less than 74 minutes. [2]
(b)	Find the probability that 4 randomly chosen cyclists all have times between 50 and 74 minutes. [4]

.....

In a different cycling event, the times can also be modelled by a normal distribution. 23% of the cyclists have times less than 36 minutes and 10% of the cyclists have times greater than 54 minutes.

c)	Find estimates for the mean and standard deviation of this distribution.	[5]