Question 18 (6 marks)

The waiting times at a Perth Airport departure lounge have been found to be normally distributed. It is observed that passengers wait for less than 55 minutes, 5% of the time, while there is a 13% chance that the waiting times will be greater than 100 minutes.

(a) Determine the mean and standard deviation for the waiting times at Perth Airport departure lounge. (5 marks)

(b)	Determine the probability that the waiting time will be between 75 and 90 minutes. (1 mark)