

- The heights, in metres, of fir trees in a large forest have a normal distribution with mean 40 and standard deviation 8.

- (i) Find the probability that a fir tree chosen at random in this forest has a height less than 45 metres. [2]

[illegible]

- (ii) Find the probability that a fir tree chosen at random in this forest has a height within 5 metres of the mean. [2]

This image shows a full page of white paper with ten horizontal dashed lines, typical of primary school handwriting practice paper. The lines are evenly spaced and extend across the entire width of the page. There is no text or other markings on the paper.

(iii) Find the mean and standard deviation of the heights of trees of this type. [5]