EB 3125 STATISTICS – QUIZ 1

Instruction: Answer All Questions.

The table below shows the frequency distribution for the weight of 52 female workers in a factory. Measurements have been recorded to the nearest kilogram (kg).

Weight (kg)	Number of female workers
40 - 44	3
45 - 49	2
50 - 54	7
55 - 59	18
60 – 64	18
65 – 69	3
70 - 74	1

i.   Construct an ogive and estimate the median weight of the female   **(8 MARKS)**
        workers.

ii.   Find the number of students whose weights are greater than 61 kg.   **(2 MARKS)**

Formulae

	Sample Variance ,
$\bar{x} = \dfrac{\sum fx_m}{\sum f}$ $MD = L + \dfrac{\left(\dfrac{n}{2} - C_f\right)}{f} C$	$s^2 = \dfrac{\sum fx^2 - \dfrac{\left(\sum fx\right)^2}{\sum f}}{\sum f - 1}$ Standard deviation, $s = \sqrt{s^2}$