## 

## KEY WORDS \& DEFINITIONS

## I. Outlier

## Comparing 2 sets of data:

Calculate $\varepsilon$ compare the measures of location
Calculate $\varepsilon$ compare the measures of spread Compare outliers if applicable
extremities. These are usually calculated as a multiple of the interquartile range above the
mean $\&$ s.d go together
Median $\&$ IQR go together.
upper quartile or below the lower quartile.
i.e. either greater than $Q_{3}+k\left(Q_{3}-Q_{1}\right)$
or less than $Q_{1}-k\left(Q_{3}-Q_{1}\right)$
Ensure all comparisons are done In COnTEXT
2. Cleaning

The process of removing anomalies from the data set.

## BOX PLOTS

Box plots are rarely symmetrical
$25 \%$ of the data lies within each section
Always use the same scale when comparing box plots




Plot points at the upper limits of group boundaries
Ensure it makes sense to extrapolate the curve at the beginning
Be careful of questions that ask "How many are more than..."

## HISTOCRAMS



Histograms are used to represent grouped continuous data Area of bar $=k \times$ frequenc $y$
If $k=1$, then frequency density $=\frac{\text { frequency }}{\text { class width }}$
You may need to find the areas of parts of bars if questions don't use the class boundaries.
Joining the middle of the tops of each bar in a histogram
I forms a frequencu polygon

