Statistics - Comparison of CAPS, approved book1 and Siyavula

Book 1	
Intro to stats	
Definition of data	
Definition of statistics	
Finding averages or measures of central tendency	
average or measure of central tendency of a data se	et represent typical
three measure are mean, mode and median	
Mean = x =	
Median is	
Mode is	
Example of finding mean, mode and median	
Example combining two data sets	
Explanation of outliers, mean influenced by outlier, i	median not, mode
Exercise	
Advantages and disadvantages of mean, median and mod	de
Mean	
Median	
Mode	
Types of data	
Quantitative and qualitative	
Quantitative or numerical and examples	
Qualitative and examples	
Example of whether quantitative or qualitative	
Exercises	
Frequency tables	
What is frequency and tally	
Example Exercises	
Stem and leaf diagrams	
Example	
Exercises	
Grouped data	
Explanation of grouped	
Example - midpoint of	
Exercise	
Measures of dispersion or spread around the mean	
Explanation of dispersion vs central tendency	
Range	
Quartiles	
Explanation	
Explanation	
Interquartile range	
Example	
Box and whisker diagrams	
Example	
Exercise	
Semi-interquartile range	
Other sub-divisions	
median	
quartiles	
deciles	
percentiles	
Use and abuses	
outliers	
misleading graphs	

```
CAPS
Revise measures of central tendency in ungrouped data
Measures of central tendency in grouped data
     mean estimate for grouped data
     modal interval
     interval in which median lies
Revision of range
Percentiles
Quartiles
Interquartile range
semi interquartile range
Five number summary (min, max and quartiles)
Box and whisker plots
```

```
<u>Siyavula</u>
Intro text
  Insert practical example - graph, histogram, article, etc
Data and data collection
    Definition of data
    Primary and secondary data
    Qualitative and quantitative
    Methods of collection
    Samples and populations
    Example data sets
Summarizing data
Measures of central tendency
    Intro discussion on need for measures
    Mean
        Definition
         Worked example
         Mention outliers and impact thereof
    Median
Definition
         Mention not influenced by outliers
         Worked example – uneven number elements
         Worked example - even number elements
         Definition
         Not influenced by outliers, only occur if repetition of items
         Worked example
Measures of dispersion
    Intro to why measures of dispersion is needed
    Range
         Definition
         Mention affected by outliers
        Example
    Quartiles
         Definition
        Example
    Interquartile range
         Definition
         Example
    Semi inter-quartile range
         Definition
        Example
    Percentiles
    Five number summary
    Box and whisker plots
         Description
         Example
Grouped data
   Intro to grouped and application to measures
    Worked example
   Worked example – another one on applying all to grouped
Applications
Misuse of statistics
```