

UNIT 16 *Cumulative Frequency*

Teaching Notes

Historical Background and Introduction

This unit builds on work in earlier units on statistics and covers the important concept of *cumulative frequency curves*, in addition to one key way of illustrating data, namely *box and whisker plots*.

Routes

	Standard	Academic	Express
16.1 Averages	✓	✓	(✓)
16.2 Grouped Data	(✓)	✓	(✓)
16.3 Cumulative Frequency	×	(✓)	✓
16.4 Box and Whisker Plots	×	×	✓

Language

	Standard	Academic	Express
Quartiles (upper and lower)	×	(✓)	✓
Interquartile range	×	(✓)	✓
Semi-interquartile range	×	(✓)	✓
Cumulative frequency graph/polygon	×	(✓)	✓
Box and whisker plots	×	×	✓

Misconceptions

- confusion often exists regarding the positioning of the points on a frequency polygon (curve): they should be plotted at the *END* of each interval (not at the midpoint).

Challenging Questions

The following questions are more challenging than others in the same section:

	<i>Section</i>	<i>Question No.</i>	<i>Page</i>
<i>Practice Book Y9B</i>	16.2	11	179
" "	16.4	10	194