

WORKING WITH GROUPED DATA

Name:

Assessment Criteria: Estimate the mean, median and range of a set of grouped data and determine the modal class, selecting the statistic most appropriate to the line of enquiry.

1a) Calculate an estimate of the mean height of the sunflowers here:

Height (cm)	Frequency
$155 \leq h < 160$	3
$160 \leq h < 165$	8
$165 \leq h < 170$	14
$170 \leq h < 175$	21
$175 \leq h < 180$	26
$180 \leq h < 185$	12
$185 \leq h < 190$	4

_____ cm

b) Estimate the median for the data

_____ cm

c) Estimate the range of heights of the 80 Year 11 students in section 8(b).

_____ cm

d) What is the modal class for the same data?

Which is the most appropriate statistic to use in each of these cases? Give reasons for your answer.

- i) Describing length of pregnancies in women

- ii) Comparing the spread of heights of two sets of students

- iii) Most popular newspaper in a survey

3. Using the table below, create a set of data with each of the following conditions:

- an estimated mean greater than 135
- the median is not in the central group
- a range less than 20

	Frequency

Overall, I think my success level is:

Low High

Q	WORKING WITH GROUPEd DATA	☺	☹
	I can estimate the mean for a set of grouped data		
	I can estimate the median for a set of grouped data		
	I can estimate the range for a set of grouped data		
	I can find the modal class for a set of grouped data		
	I can select an appropriate statistic for an enquiry		
	<i>I can justify generalisations, arguments or solutions</i>		

I need to practise ...

