

Chapter 5 / **Example 3**

Drawing a frequency histogram

The weights of 50 baby chicks hatched in one week were recorded in the table below.

a Organize the data in a table by grouping the data into classes of equal width.

b Draw a frequency histogram to represent the data.

22.4	20.0	23.3	25.2	24.1	23.6	19.7	21.3	24.0	24.7
23.6	22.3	21.4	22.4	23.9	25.0	22.2	23.5	21.9	23.0
24.3	21.6	19.9	21.2	23.5	24.6	23.5	19.9	20.2	20.3
23.0	24.6	23.5	22.5	23.0	24.5	24.9	21.3	20.5	20.4
21.4	22.4	23.6	24.5	23.4	22.9	23.8	24.6	21.0	21.3

Open a new document and add a Lists & Spreadsheet page.

Type 'weight' in the first cell.

Type the lower values of each of the class intervals in the first column. Type 19.5, 20.5, 20.5, ...

Press **enter** or **▼** after each number to move to the next cell.

Note: The word 'weight' is a label that will be used later to create the chart. You can use any letter or name to label the list.

A	weight	B	C	D
1		19.5		
2		20		
3		20.5		
4		21		
5		21.5		

Type 'f' in the cell to the right of 'score'.

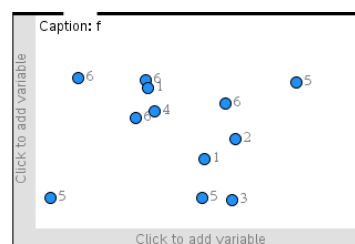
Enter the frequencies of each of the scores in the second column.

Use the **▲ ▼ ► ◀** keys on the touchpad to navigate the spreadsheet.

A	weight	B	C	D
1		19.5	3	
2		20	5	
3		20.5	1	
4		21	6	
5		21.5	2	

Add a new Data & Statistics page to your document by pressing **ctrl** **doc** **(+page)** 5: Add Data & Statistics.

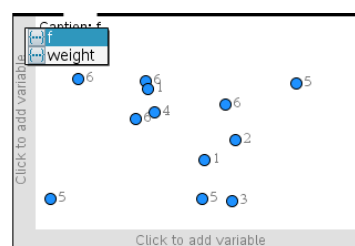
Note: Ignore the screen display that you see when this page first opens.



Press **menu** 2: Plot Properties | 5: Add X Variable.

The GDC displays the two variables you created in the spreadsheet: 'f' and 'weight'.

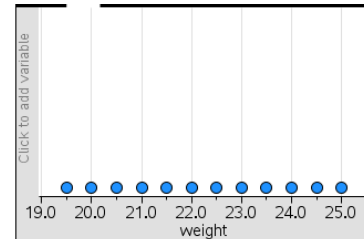
Select 'weight' with the touchpad.



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The GDC displays the values of score that you entered in the spreadsheet on the x -axis.

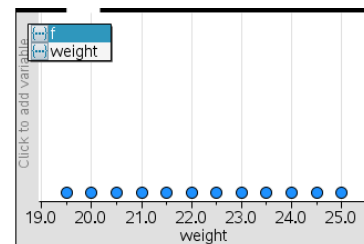


Press **menu** 2:Plot Properties | 9: Add Y Summary List.

The GDC displays the two variables you created in the spreadsheet: 'f' and 'score'.

Select 'f' with the touchpad.

The term 'summary list' on this GDC is used to denote frequency.



The GDC displays a histogram of the data as this is the default display.

