



• Pie charts should always be labelled, either directly on the pie chart or by means of a colour-coded key.

Tally Charts

•	A tally chart is a way to
	represent data.

- You are able to represent qualitive and quantitative data.
- tally charts or grouped tally charts. These are also called frequency tables.

Response	Tally	Frequency		
0	₩₩₩	13		
1	HH III	8		
2		4		
3	11	2		
4		0		
5		0		
6 or more	111	3		

Grouped tally chart with continuous data					
Response	Tally	Frequency			
<i>x</i> < 125		2			
$125 \le x < 135$		2			
$135 \le x < 145$	HH 11	7			
$145 \le x < 155$	₩₩ ₩† I	11			
$155 \le x < 165$	HH I	6			
$x \ge 165$		2			

Tally chart with	
auantitative data	

Response	Tally	Frequency
White		0
Black	HH 11	7
Blue	1	1
Blonde	1111	4
Dark Brown	HH IIII	9
Ginger	111	3
Light brown	H#1	6

	Keyword/Skill	Definition/Tips
	Discrete	Discrete data can only have a finite or
		limited number of possible values
	Continuous	Continuous data can have an infinite
		number of possible values within a selected
		range
	Quantitative	Quantitative data that can be counted
		(discrete), quantitative date that can be
		measured (continuous)
	Qualitative	Information that is written in words i.e. colour of cars
	Average	A calculated 'central value' of a set of
		numbers
	Mean	The mean amount is the total amount split
		evenly
	Median	Place the numbers in value order and then
		find the middle number. When there are
		two numbers in the middle we average
	Mada	The number which appears most often in a
	Mode	set of numbers
		set of hombers
	Range	The difference between the highest and
		lowest values
	Frequency	How offen something happens.
	Table	Information (such as numbers and
		descriptions) arranged in rows and columns.
	Data	A collection of facts, such as numbers,
		words, measurements, observations or even
		just descriptions of things.
_	Proportion	A part, share, or number considered in
		comparative relation to a whole.
	Univariate	Univariate means "one variable" (one type
	Data	of data).

Other Topics/Units this could appear in:

- Averages
- Averages from Tables
- Sampling •
- Histograms

Vegy 8 Mastery Unit 9 University Data					Keyword/Skill	Definition/Tips	
Year 8 Mastery Unit 9 – Univariate Data					Discrete	Discrete data can only have a finite or	
<u>Calculating the Mean</u> The mean is the most commonly used measure of ave	You can also find missing values from data sets when given the mean.		Continuous Quantitative	Continuous data can have an infinite number of possible values within a selected range Quantitative data that can be counted (discrete), quantitative data that can be			
For example take this data set:	<u>Example</u> : Three children have a mean of 150cm. Two children have a height of 155cm and 158 cm. What is the height of the third child?			Qualitative	measured (continuous) Information that describes something		
10. 12. 4. 2 I can represent this as a bar model:				Average	A calculated 'central value' of a set of numbers		
10 12 4 2		I can draw a bar model to help me out: 450cm		Mean	The mean amount is the total amount split evenly		
28					Median	find the middle numbers in value order and inen two numbers in the middle we average them.	
The total is 28. I then want to split this amount evenly ir many values there are. In this case I need to split 28 in	total is 28. I then want to split this amount evenly into how ny values there are. In this case I need to split 28 into 4 even		150 cm	150 cm	Mode	The number which appears most often in a set of numbers	
values. 77777		155 cm	158 cm	? cm	Range	The difference between the highest and lowest values	
		I can see that the total would be 450cm so I can figure out the missing total: 155cm + 158cm = 313cm 450cm – 313cm = 137cm			Frequency	How often something happens.	
28					Table	Information (such as numbers and descriptions) arranged in rows and columns.	
Therefore the mean is 7!			is the height	of the third child	Data	A collection of facts, such as numbers, words, measurements, observations or even just descriptions of things.	
Calculating the Median	Calculating	g the mode	Calculating t	he Range	Proportion	A part, share, or number considered in comparative relation to a whole.	
 If you place a set of numbers in order, the median number is the middle one. 10 12 13 15 16 23 26 The mode most off 		de is the value that occurs ten The range is the difference between the highest and lowest values in a set of numbers		Univariate Data	Univariate means "one variable" (one type of data).		
15 is the middle number so it is the median.	Example:	Example: Find the range of:		Other Topic	cs/Units this could appear in:		
the mean of this 10 12 13 15 16 17 23 26	· · · · · ·	1,3,3,4,7,8	23, 27, 40, 18, 25		Average	ages	
Here you need to find the number in the middle of 15 and 16: $15 + 16 = 31$ $31 \div 2 = 15$ Therefore 15 5 is the median		3 occurs the most so the	The largest vo smallest value 40	The largest value is 40 and the smallest value is 23. 40-23 = 17 • Averages from Tables • Sampling • Histograms		g ms	
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