Frequency Table

A frequency table is a table with two columns. One column lists the categories, and another for the frequencies with which the items in the categories occur (how many items fit into each category).

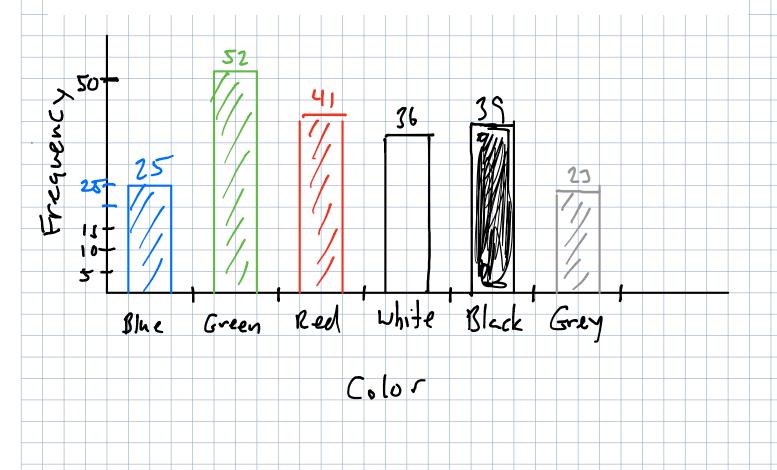
Example 1

An insurance company determines vehicle insurance premiums based on known risk factors. If a person is considered a higher risk, their premiums will be higher. One potential factor is the color of your car. The insurance company believes that people with some color cars are more likely to get in accidents. To research this, they examine police reports for recent totalloss collisions. The data is summarized in the frequency table below.

Color	Frequency
Blue	25
Green	52
Red	41
White	36
Black	39
Grey	23

Bar graph

A **bar graph** is a graph that displays a bar for each category with the length of each bar indicating the frequency of that category.



Example 4

In a survey¹, adults were asked whether they personally worried about a variety of environmental concerns. The numbers (out of 1012 surveyed) who indicated that they worried "a great deal" about some selected concerns are summarized below.

Environmental Issue	Frequency				
Pollution of drinking water	597				
Contamination of soil and water by toxic waste	526				
Air pollution	455				
Global warming	354				

We could use a ber graph to illustrate the desta

Pie Chart

A **pie chart** is a circle with wedges cut of varying sizes marked out like slices of pie or pizza. The relative sizes of the wedges correspond to the relative frequencies of the categories.

	Environmental Issue	Frequency							
1	Pollution of drinking water	597	5	17	- /	19	32	_	3)
~	Contamination of soil and water by toxic waste	526	5	26	. /	19	37	? (27
3	Air pollution	455	•	1		19			24
4	Global warming	354	3	5-4	1	19	12	•	18
	Note: circle: 360° Hou to divide pie chart	2/00 ~		~	36		0	2 0	

