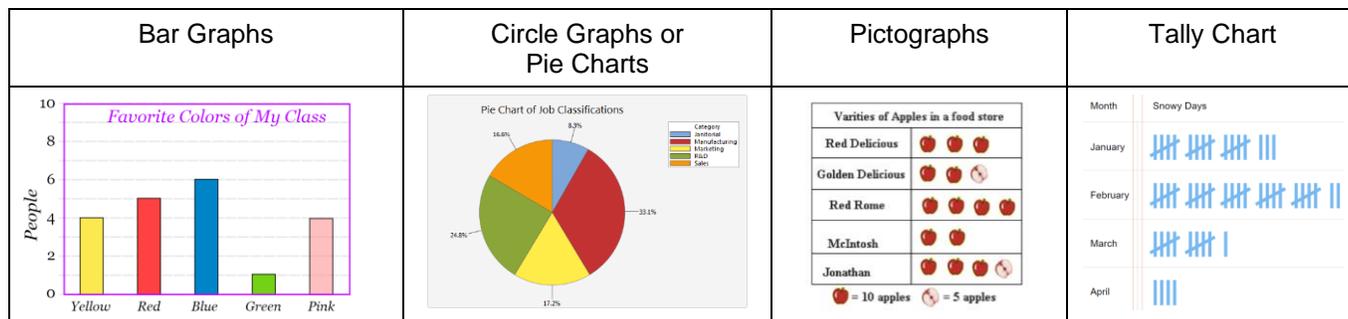


### 3.3 Display Data

#### A Categorical Data

- ✓ are types rather than numbers
- ✓ are given labels rather than being measured numerically

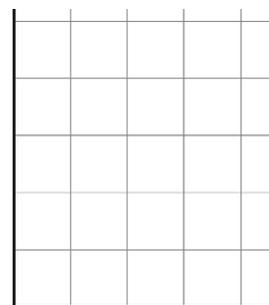
Categorical data are illustrated by:



Example 1. A nurse is collecting blood type data from her patients. When a new patient is checked in, the nurse does a simple finger-prick test to see whether the patient's blood is type A, B, AB, or O. (These are the four possible blood types. She tracks her results by creating a two-column table with the patient's name and blood type. Display this data by using a bar graph.

Name	Blood Type
Dominique	A
Ilya	O
Raul	AB
Madison	O
Philip	AB
Samuel	B
Josefine	O
Brett	O
Paula	B
Leticia	AB

Blood Type	Tally	Frequency



Example 2. The pictograph below shows the number of medals earned at an international competition. How many medals did Japan earn?

Country	Medals
Japan	◆◆◆◆◆
Argentina	◆◆
Germany	◆◆◆◆◆◆
Egypt	◆◆◆◆

◆ = 4 medals



## D Technology

Technology (like Google Sheets) may be used to create graphical displays of data by using a Bar Graph, Pie Chart or Line Graph.

Example 5. Imagine you survey your friends to find the kind of movie they like best:

Comedy	14
Action	10
Romance	6
Drama	8
SciFi	12

Use Google Sheets and display this data by using a Pie Chart.

Example 6. In a firm of 400 employees, the percentage of monthly salary saved by each employee is given in the following table. Represent this data through a Bar Graph in Google Sheets.

Savings	Number of Employees
20%	105
30%	179
40%	29
50%	73
60%	14

Example 7. In the table below is given information about temperature in Mississauga, Ontario. Display this data by using a Line Graph in Google Sheets.

	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature (°C)	-5.8	-5.1	-0.6	6.5	12.7	18	21	19.9	15.8	10	3.8	-2.8
Min. Temperature (°C)	-9.6	-9.2	-4.7	1.5	7	12.2	15.2	14.4	10.5	5.2	0.2	-6.3
Max. Temperature (°C)	-1.9	-1	3.5	11.6	18.4	23.8	26.8	25.5	21.1	14.8	7.4	0.7

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