

## Types of Graphs – Reference Sheet

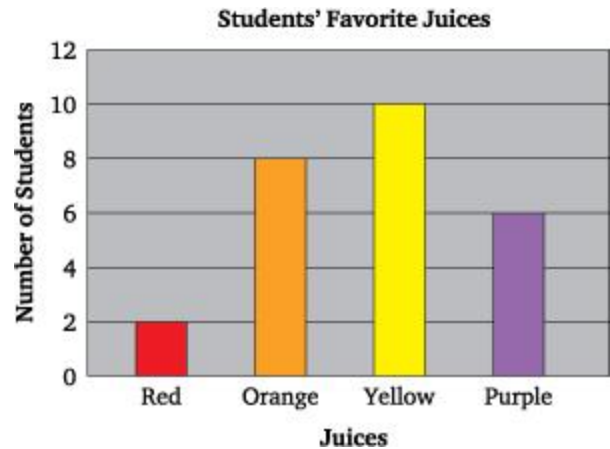
### Bar Graph

**Include:**

- Title
- Y-axis (up-down) and X-axis (side-to-side) labels
- Axis titles
- Bars

**Purpose:** to compare quantities (amounts) that are in different categories.

\*Note: can be vertical, horizontal or stacked (multiple sets of data).

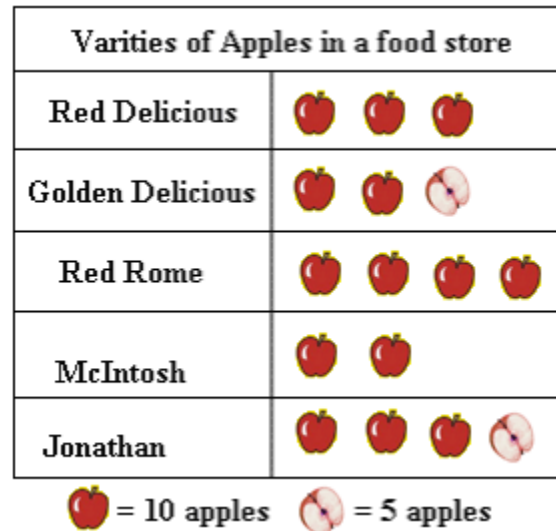


### Pictograph

**Include:**

- Title
- Category labels
- Picture that fits with the data
- Legend

**Purpose:** uses pictures to represent a certain amount of data.

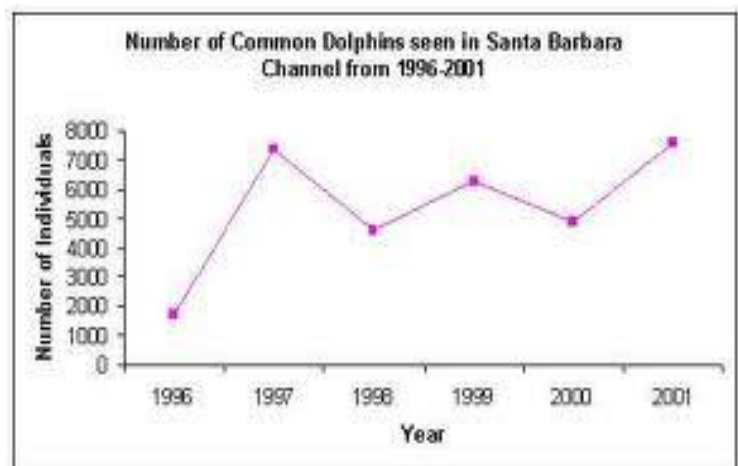


### Line Graph

**Include:**

- Title
- Y-axis (up-down) and X-axis (side-to-side) labels
- Axis titles
- Points
- Lines to connect points

**Purpose:** shows changes in data or patterns (often over time). Line graphs can compare multiple data sets on one graph easily.

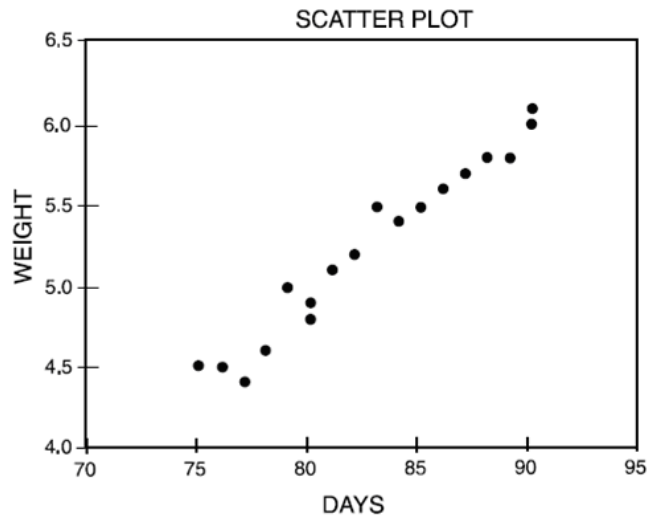


# Scatter Plot

**Include:**

- Title
- Y-axis (up-down) and X-axis (side-to-side) labels
- Axis titles
- Points

**Purpose:** show how much one variable is affected by another.



# Stem-and-Leaf Plot

**Include:**

- Title
- Stem column – for the tens digits
- Leaf column – for the ones digits
- T-chart to separate data

**Purpose:** helps to organize large amounts of data for analysis.

**Quiz Scores**

Stem	Leaf
4	0, 9
5	6, 8, 9
6	1, 4, 7
7	3, 5, 6, 8
8	0, 5, 7, 8
9	2, 6

# Circle Graph

**Include:**

- Title
- Circle to break into pieces
- Data calculated into degrees (for building graph)
- Data in percentages for labels
- Legend

**Purpose:** represents data as part of a whole (100%).

**People who like different fruits**

