

(a) Dot plots: A dot plot is a type of graphic display used to compare frequency counts within categories or groups.

A dot plot displays a dot for each value in a data set along a number line. If there are multiple occurrences of a specific value, then the dots will be stacked vertically.

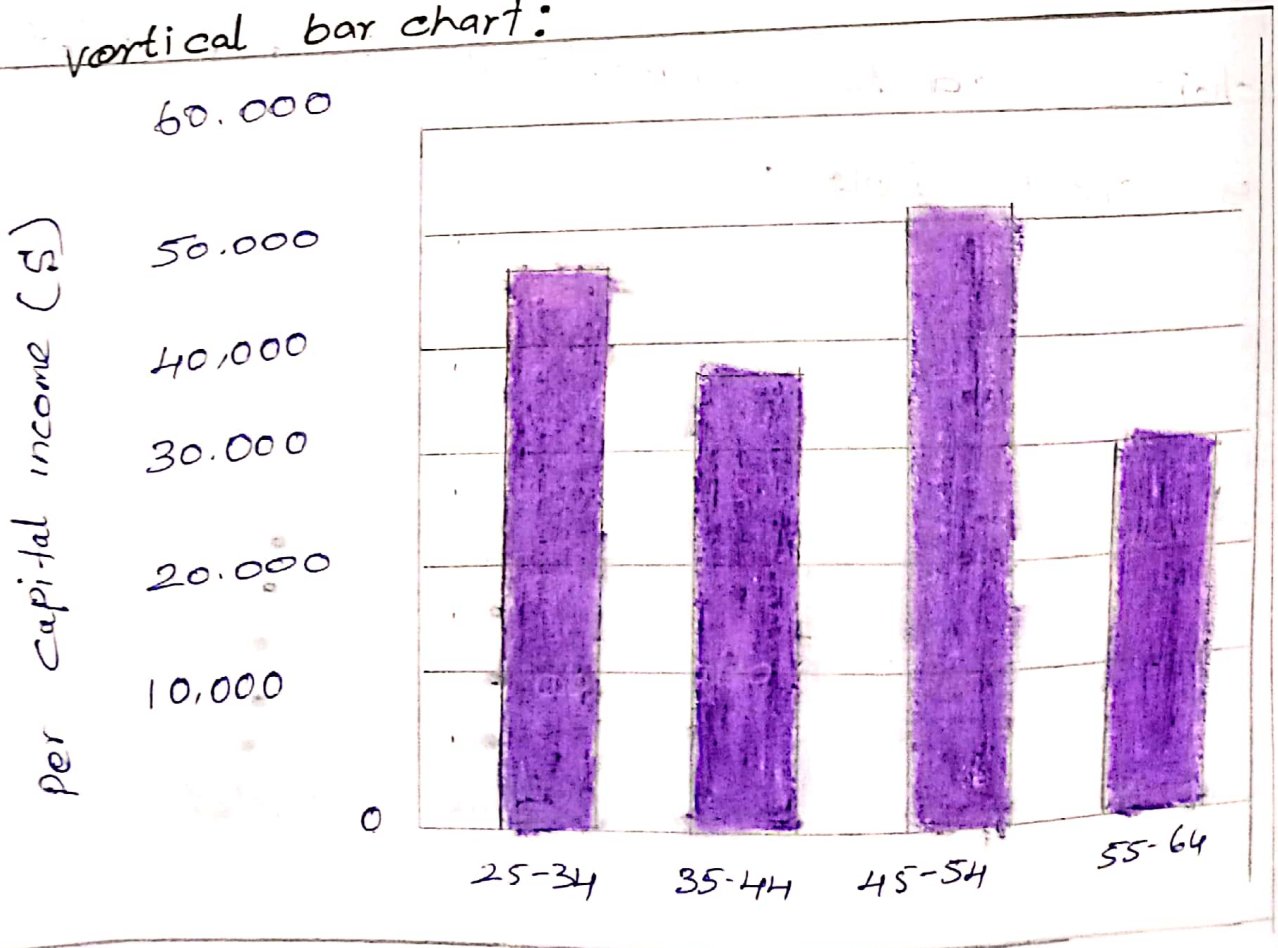
Example: Suppose 24 first graders are asked to pick their favorite colour. Their choices can be summarized in a dot plot, as shown below:



b) Bar charts: a bar chart or a bar graph is a graph that uses vertical or horizontal bars to represent the frequencies of the categories in a data set

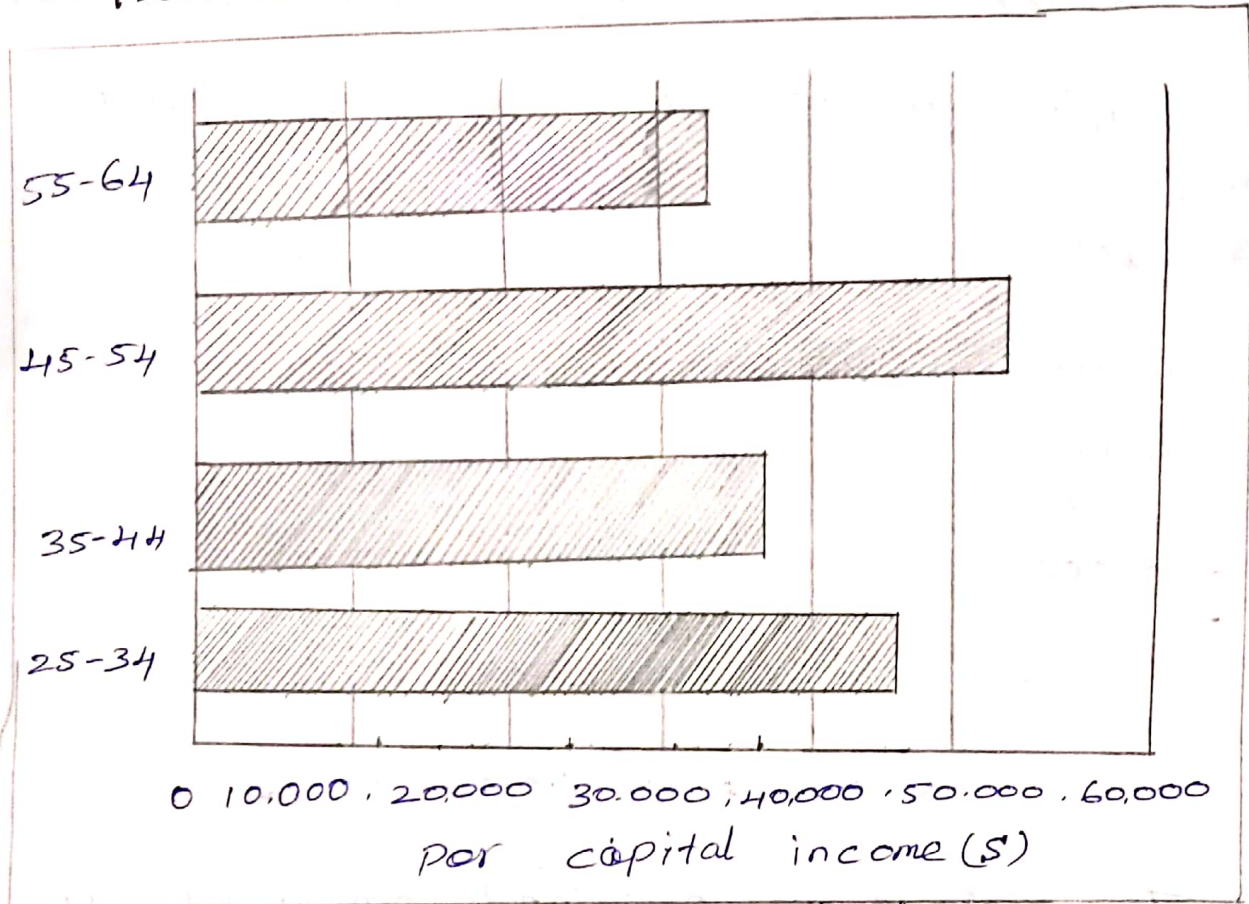
Example: The bar chart below shows average per capita income for the four "New" states - new Jersey, new York, new Hampshire, and new Mexico

Vertical bar chart:



(3)

Horizontal bar chart:

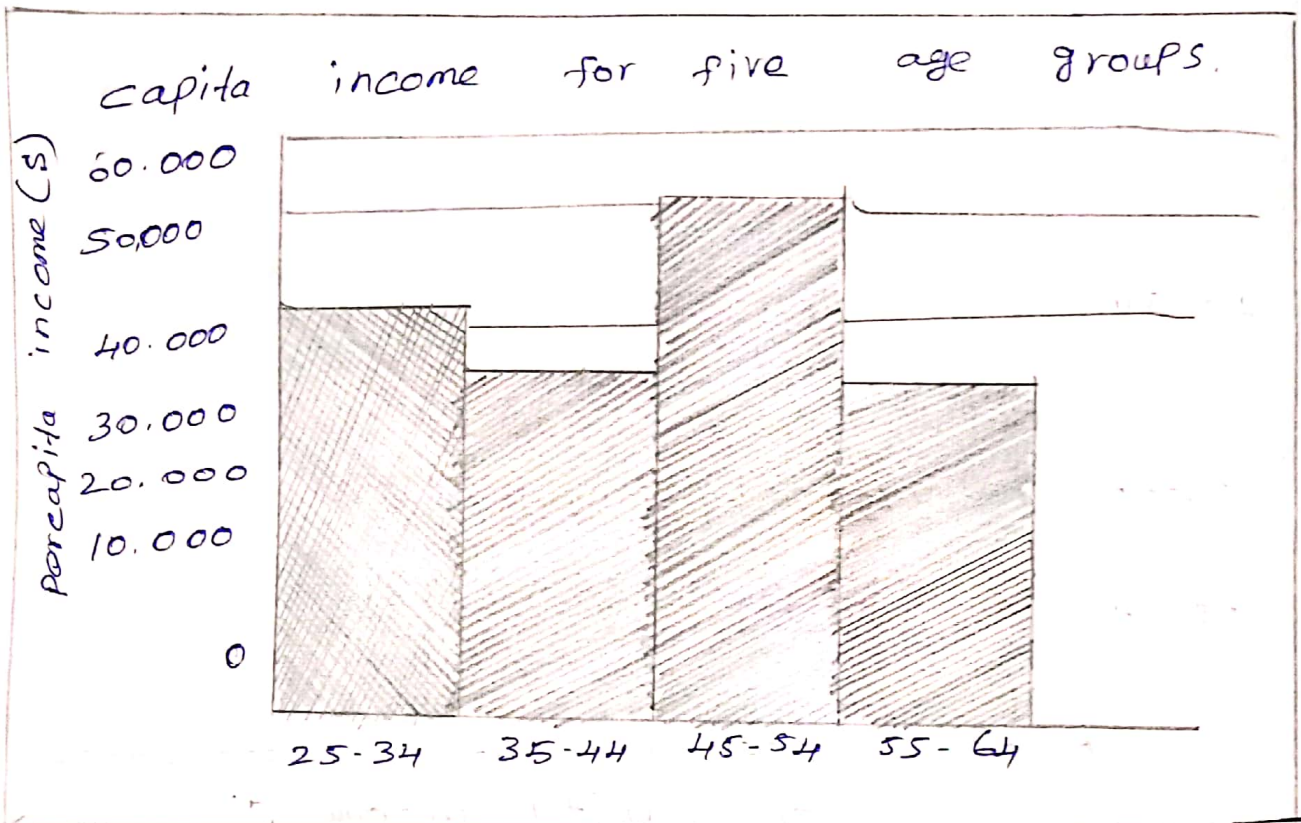


The columns are positioned over a label that represents a categorical variable.

(C) Histograms: A histogram is graphical display of a frequency or a relative frequency or a relative frequency distribution that uses classes and vertical bars (rectangles) of various heights to represent the frequency

(4)

Example: The histogram below shows per

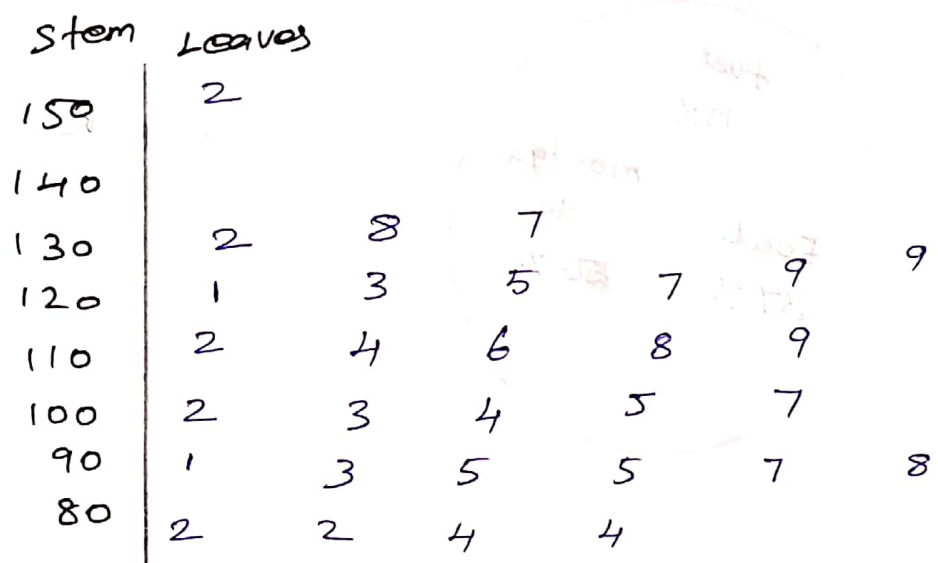


The columns are positioned over a label that represents a quantitative variable.

(d) Stem and - Leaf plots: A stem and-leaf plot is a data plot that uses part of a data value as the stem to form groups or classes and part of the data value as the leaf.

A stem-and-leaf plot is used to display quantitative data, generally from small data set (50 or fewer observations).

Example: The stem-and-leaf plot below shows IQ scores for 30 sixth graders.



Key: 120 3 represents an IQ score of 123

(e) Pie charts: A pie graph or pie chart is a circle that is divided into slices according to the percentage of the data values in each category.

Example: a family's weekly expenditure on its house mortgage, food and fuel is as follows:

expense	mortgage	food	fuel	Total
\$	300	225	75	600
Percentage	50	37.5	12.5	100
central Angles	180	135	45	360

(6)

