

**Instructions:** Show all work to receive full credit. You should note any formulas used or calculator functions used, their inputs and outputs. I cannot grade work if I don't know where an answer came from. Be sure complete all parts of each questions, including requests for interpretation and explanations. Be as thorough as possible.

- Below is a list of 30 answers to the question "What is your favourite colour?" obtained from a student survey. Create a table of the frequencies for each colour in the data set, and convert that to a relative frequency table.

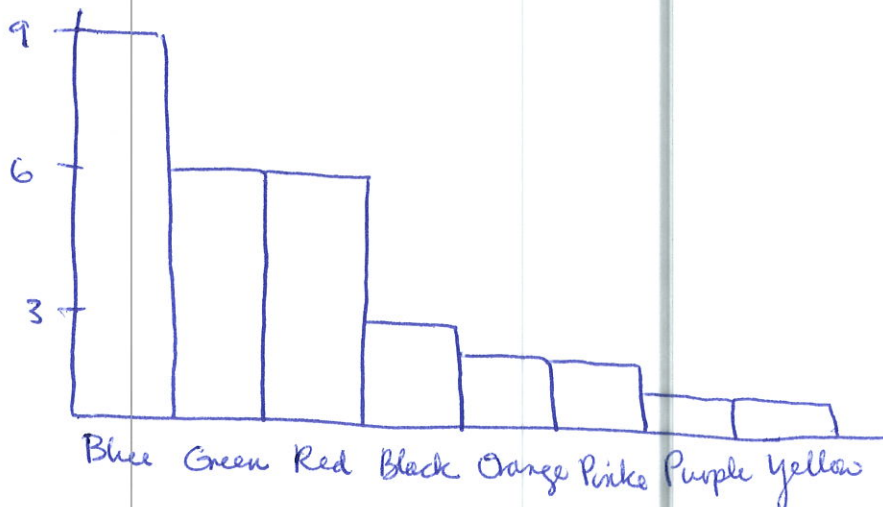
Data:

Blue	Green	Blue	Red	Black	Orange
Blue	Pink	Blue	Blue	Green	Green
Yellow	Red	Red	Blue	Black	Purple
Green	Green	Red	Green	Blue	Orange
Blue	Red	Black	Pink	Red	Blue

On the last quiz, we created the following frequency table:

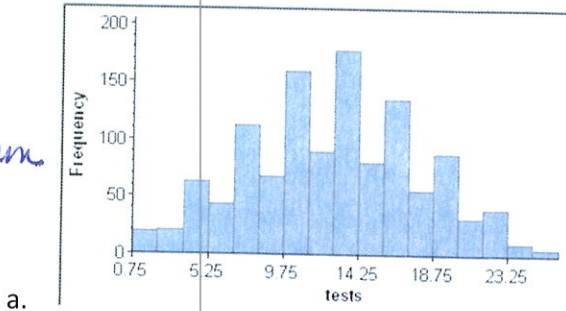
Colour	Frequency	Relative Frequency – Percent (round to one-tenth of a percent)
Black	<del>3</del>	10%
Blue	<del>9</del>	30%
Green	<del>6</del>	20%
Orange	<del>2</del>	6.7%
Pink	<del>2</del>	6.7%
Purple	<del>1</del>	3.3%
Red	<del>6</del>	20%
Yellow	<del>1</del>	3.3%

Use the data to create a Pareto chart.



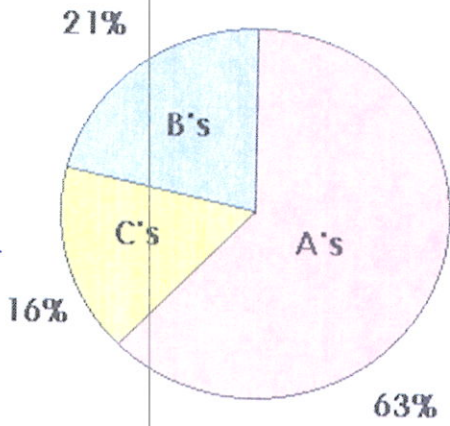
2. For each of the graphs below, state the type of graph shown.

*histogram*

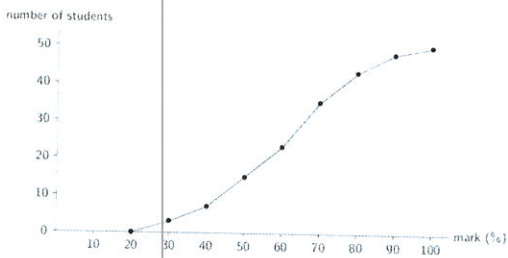


a.

*pie chart*



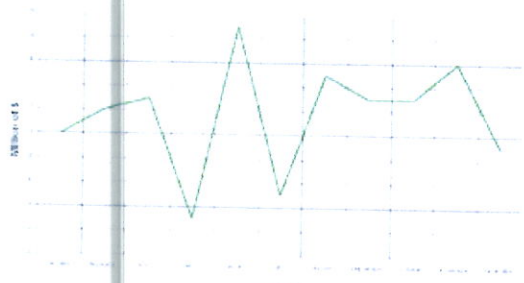
b.



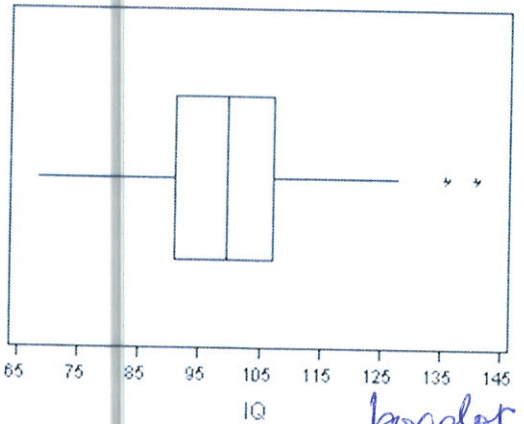
c.

*ogive*

*line graph*



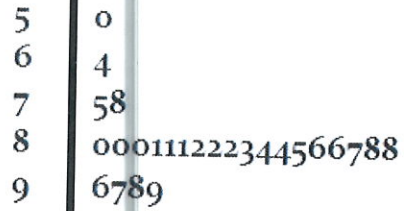
d.



e.

*boxplot*

Test scores -- 3rd Grade



f.

*stemplot*