

The results of a survey showing the preferred sport of 80 students as a percentage are shown below.

Tennis	Netball	Football	Swimming	Golf	Cricket
5	10	20	45	15	8

- Construct a frequency table with columns for sport, frequency, cumulative frequency and cumulative percentage.
- Draw a Pareto chart to represent the above data.
- Use the Pareto principle to determine which sports require the most attention.

The orders received by a business for five months are shown below.

Month	Frequency	Cumulative frequency	Cumulative percentage
Apr	25	25	
May	9		68
Mar	8		
Feb	5	47	
Jan	3		100

- Copy and complete the table above.
- How many categories will be on the horizontal axis of a Pareto chart?
- What is an appropriate scale for the vertical axis on the left-hand side of a Pareto chart?
- What is an appropriate scale for the vertical axis on the right-hand side of a Pareto chart?
- Draw a Pareto chart from your frequency table.
- Determine which are the most significant months by applying the Pareto principle.