Graph It!
Teachers Notes Plus Cards

Often a graph or chart is plotted to display results rather than a table of numbers but it is important to plot the right type of graph or chart.

On the following pages are pictures of graphs and charts.

TASK 1

1. Get into a group of 3 or 4 people.
2. Cut out the cards if this has not already been done for you.
3. Work with each other in the group to match:

    the picture of the graph or chart
    with
    when you would use this graph or chart
    with
    the type of the graph or chart
    with
    the data you think this graph or chart represents.

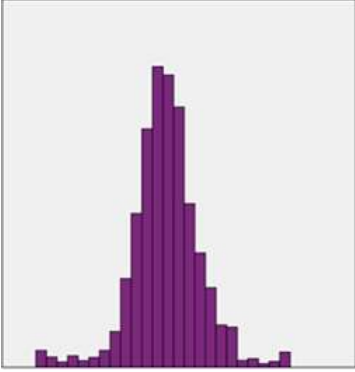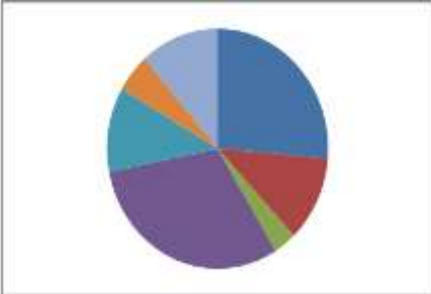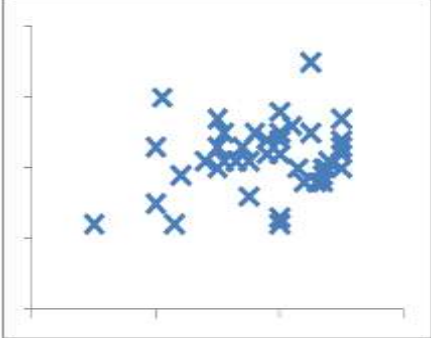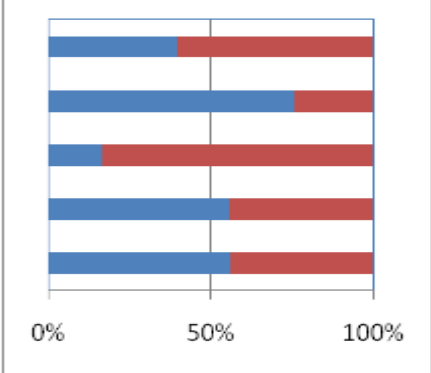   You should finish with 8 piles each with 4 cards.

TASK 2

To display the following data suggest a graph or chart you would use and state why.

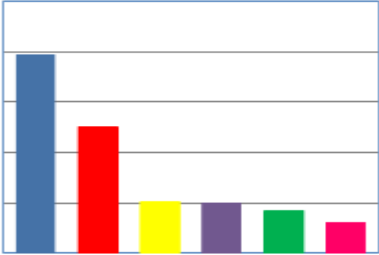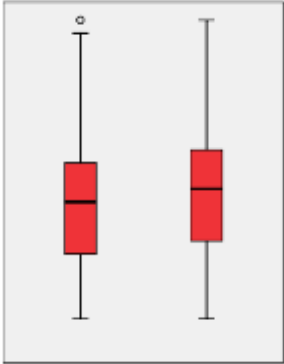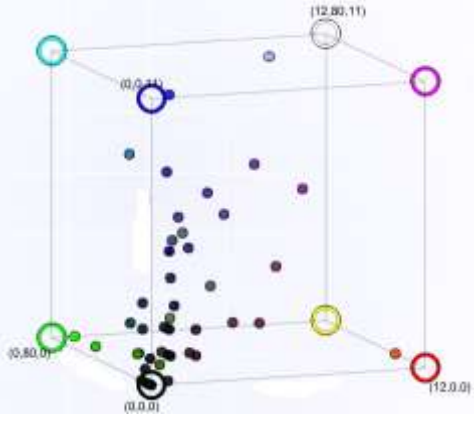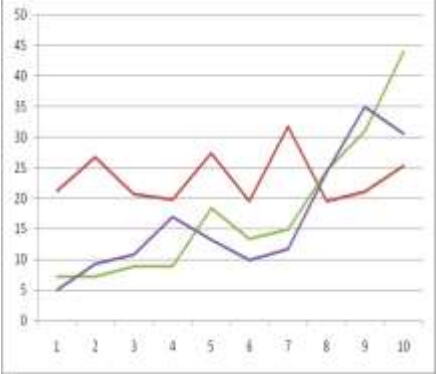| Data	What graph or chart would you plot to display this data?	Explain why you have chosen this graph or chart.
To see if there is a relationship between age and how many hours spent watching TV		
To compare the number of hours boy and girls spend on their computer.		
To see the distribution of children's height		

Graph/Chart	When to use	Type of Graph or Chart	Data
	To show proportion	Horizontal Bar Chart	The soaps children watch on TV
	To show differences for more than one group	Scatter Diagram	Foot length
	To show a series of values of a variable at successive times	3D colour plot	A superpower boys would like at different ages
	To show differences	Time Series	Height vs Foot length

Graph/Chart	When to use	Type of Graph or Chart	Data
	To show the relationship between three variables	Pie Chart	Hours spent on homework, housework and meeting friends
	To show the distribution	Histogram	Voting patterns for X Factor 2008-2009
	To show relationship	Vertical Bar Chart	Girls and boys heights
	To compare	Box Plots	The top 6 famous Olympians