

TUTOR ASSIGNMENT

Note: Don't submit only the answers to your tutor. If you make a mistake your tutor won't know where the mistake lies and will be unable to help you. Show all your working. This means writing down the numbers you use in any calculations and also showing what the calculations are, even though you use a calculator to carry them out.

T₁

This table shows the number of overseas visitors (in thousands) to Scotland in 1979 and in 1989:

Year	USA	Canada	Germany	Rest of Europe	Rest of the World
1979	253	110	111	239	325
1989	339	112	155	248	476

Draw a suitable graph or chart for each of the following:

- to illustrate the data for 1979 only in a simple way
- to illustrate the data for both years together in a simple way
- to illustrate the data for 1989 only in a roundabout way so that you can see each area's contribution to the whole
- to illustrate the data for both years in such a way that you can compare the two years side by side, and see the proportion that each area takes of the whole but still see the actual numbers coming from each part of the world
- as for (d), but you are only interested in seeing the proportions, not the actual sizes.

T₂

This table gives the estimated population of Scotland over a period of time. Illustrate it in an appropriate manner. The numbers are in thousands.

Year	1901	1911	1921	1931	1941	1951	1961	1971	1981
Population	4,479	4,751	4,882	4,843	4,819	5,102	5,183	5,236	5,180

T₃

This list of numbers gives the sizes of all the Scottish parliamentary constituencies in 1991, to the nearest 100. Organise them so that the sizes could be analysed. There are two main ways of doing this.

60,200	58,700	62,800	48,100	66,100	64,100
31,100	56,000	56,300	49,100	47,900	62,300
46,900	55,400	49,700	57,700	61,200	58,900
60,200	50,400	51,200	64,400	67,200	64,300
56,000	46,800	57,400	56,500	61,700	60,600
52,300	50,500	54,900	45,800	48,900	42,300
46,700	56,000	48,300	47,200	37,800	53,800
52,100	45,900	78,400	53,300	62,500	68,800
62,500	65,700	52,400	61,800	62,100	60,900
49,200	50,100	63,400	58,200	51,200	53,400
55,300	31,400	47,800	49,100	65,100	58,500
55,200	43,800	58,300	61,800	39,600	23,100

T₄

Draw a flowchart to illustrate the following method of finding an employee's car allowance:

If the distance is under 1,200 miles, the amount paid is 34p per mile

Distances of 1,200 up to 2,000 get £408 plus 24p for each mile above 1,200 miles.

Distances of 2,000 miles and over get £300 plus 15p per mile