



Electricity Supply

Look at the tables below, which show the electricity used each month during 1998 in England and in South Africa. Electricity is measured in gigawatt hours.

South Africa 1998

Month	Jan	Feb	March	April	May	June	
Electricity	15403	14459	15714	14923	16261	16280	YEAR
Month	July	August	Sept	Oct	Nov	Dec	TOTAL
Electricity	16867	16417	15536	15958	15136	14563	187517

England 1998

Year	Jan	Feb	March	April	May	June	
Electricity	27870	27970	33610	25320	22650	28290	YEAR
Month	July	August	Sept	Oct	Nov	Dec	TOTAL
Electricity	22020	21720	28400	26320	28720	32760	325560

1. Use the information in the tables to write a couple of sentences about any patterns you can see in the numbers for how much electricity is used in each of the two countries.
2. Draw two line graphs to show the use of electricity in England and South Africa in 1998. Comment on any patterns you can observe from the graphs.
3. For each country, in which month was the most electricity used? Discuss possible reasons for this.
4. For each country calculate the difference between the most electricity used in a month and the least used. What do we call this number?
5. Calculate the mean monthly usage of electricity for England and South Africa in 1998. Explain how you did this. Comment on your findings.
6. Do you think the amount of electricity used in each country by 2002 will be the same, have gone up or gone down? Try to give reasons with your answer.
7. Given the population estimates in 1998 were 49.495 Million in England and 43.311 Million in South Africa can you work out the electricity usage per capita – i.e. per person?



In the table below are some results from CensusAtSchool in South Africa (pilot) and a graph showing the power supply to schools there. From the data in the table draw a graph to show the CensusAtSchool findings and comment on them. Try to think of some reasons for these findings. How high a priority do you think it is to get electricity to the schools? How do you think the South African government is trying to do this?

Percentage of children having access to services

Source CensusAtSchool South Africa Pilot July 2001

SERVICE	Water	Radio	TV	Computer	Internet	Mobile Phone
Children with this service	45.3%	91.6%	73.1%	15.3%	7.9%	3.7%

South Africa School Power Supplies

