

Drawing graphs

(a) Compare urban populations

1. Draw up a table using the following information [www.answers.com; quoted in State of Cape Town Report 2006]. List the cities from highest to lowest human populations.

Barcelona, Spain = 15 764
 Cairo, Egypt = 36 618
 Cape Town, South Africa = 2 644
 London, UK = 4 699
 Mexico City, Mexico = 5 799
 Mumbai, India = 29 434
 Rio de Janeiro, Brazil = 4 896

2. Draw a bar graph comparing human population sizes in these cities.

(b) Social issues in Cape Town

The information in the following table comes from the **State of Cape Town Report 2006**.

Issue	Date	Statistic	Date	Statistic
1. Number of families living in informal settlements	1993	23 000	2006	115 000
2. Housing backlog (number of houses needed)	1998	150 000	2005	265 000
3. Percentage of the labour force unemployed	1997	13%	2004	23%
4. Households living at or below the poverty line	1996	25%	2005	38%
5. Percentage of population HIV-positive	1994	1.2%	2004	15.4%
6. Number of tuberculosis (TB) cases	1997	13 870	2005	26 754

1. Use a Spreadsheet program to draw six bar graphs to display this information.
 - o Make sure that each graph has a heading.
 - o Label the X and Y axes and choose an appropriate scale.
2. In pairs or small groups, compare and discuss these statistics:
 - o Did social conditions improve or become worse in Cape Town between 1993 and 2005?
 - o What do you think are the main reasons for these changes?
 - o If you were the Mayor of Cape Town, what would you do to address social issues in the City?
3. In class, debate this question:
 Do you think the City should reduce the budget for nature conservation and use the money to build more houses for the poor?