



## BLM 2-1

### Calculating and graphing percentage of population with access to clean water 1980 vs. 2000

#### Student instruction sheet

Use the information in the following chart to complete the following assignment.

Country	Population 1980	# of people with access to clean drinking water	Population 2000	# of people with access to clean drinking water
Afghanistan	15 500 000	1 240 000	29 928 987	389 076
Angola	7 019 000	1 824 940	11 000 000	4 180 000
Bolivia	6 100 000	2 196 000	7 000 000	5 530 000
Canada	24 516 278	24 516 278	32 771 886	32 771 886
Chad	4 477 000	1 164 020	9 826 419	2 653 133
Chile	11 145 000	9 361 800	15 498 930	14 568 994
Haiti	5 353 000	1 017 070	8 300 000	3 818 000
Mexico	69 655 000	50 848 150	106 202 903	91 334 497
USA	226 545 800	226 545 800	295 734 134	295 734 134

Source: United Nations

1. Calculate the percentage of people with access to clean drinking water in each country for 1980 compared to 2000. Show all of your calculations on the calculations sheet. Place your answers in the chart on the student answer sheet.

Example:

Afghanistan 1980 = # of people with access to clean drinking water x 100  
divided by the Population 1980

$$\begin{aligned} &= \frac{1\,240\,000}{15\,500\,000} \times 100 \\ &= 8\% \end{aligned}$$

## Calculation sheet

Afghanistan 1980 (answer provided as an example)	Afghanistan 2000
Angola 1980	Angola 2000
Bolivia 1980	Bolivia 2000
Canada 1980	Canada 2000
Chad 1980	Chad 2000
Chile 1980	Chili 2000
Haiti 1980	Haiti 2000
Mexico 1980	Mexico 2000
USA 1980	USA 2000

- Using graph paper, graph your data in a bar graph format to compare the percentage of people with access to clean drinking water in 1980 compared to 2000.
- Using political maps of the world, create two choropleth maps to illustrate the differences between access to clean drinking water in 1980 and 2000. Use an appropriate colour scale to represent the different levels of access.



## BLM 2-2

Calculating and graphing percentage of population with access to clean water 1980 vs. 2000

### Student answer sheet

Country	Population 1980	Percentage of population with access to clean drinking water	Population 2000	Percentage of population with access to clean drinking water
Afghanistan	15 500 000	8%	29 928 987	
Angola	7 019 000		11 000 000	
Bolivia	6 100 000		7 000 000	
Canada	24 516 278		32 771 886	
Chad				
Chile	4 477 000		9 826 419	
Haiti	5 353 000		8 300 000	
Mexico	69 655 000		106 202 903	
USA	226 545 800		295 734 134	