

Problem Set 5: Solutions

Demography Camp

Summer 2013

Turn in answers electronically to kbietsch@princeton.edu or in my mailbox by 9AM Monday.

Using data from the World Bank (<http://data.worldbank.org/indicator>), write down the CBR, CDR and, and Population growth (annual %) for 2011 for Afghanistan, Dominican Republic, Lesotho, and USA.

	CBR	CDR	Pop Growth
Afghanistan	43	16	2.5
Dominican Republic	21	6	1.3
Lesotho	28	15	1.0
United States	13	8	0.7

Question 1

Which country has the highest CBR?

Afghanistan, with 43 births per 1000 PYs.

Question 2

Which country has the highest crude rate of natural increase (remember this term from the Population Growth handout)?

	CRNI
Afghanistan	27
Dominican Republic	15
Lesotho	13
United States	5

Afghanistan, with increase of 27 per 1000 PYs.

Question 3

For each country, compare the CRNI and the population growth (%).

For the Afghanistan, Dominican Republic, and Lesotho, the CRNI is slightly higher than the population growth, however the US CRNI at 5 per thousand is lower than the population growth 0.7% per year. The US population is growing faster than the CRNI because of immigration.

Question 4

Lesotho and the Dominican Republic have similar CRNI. Are their fertility and mortality rates similar? What does this tell you about growth rates?

CRNI does not necessarily give you information about the birth and death rates. CBR and CDR are higher in Lesotho than DR, but they has a similar gap, making their CRNI similar.