**SOCIAL STATISTICS   
SOC 24100**

*Homework #3*

Due: February 19

1. Using Table 1, calculate all appropriate measures of tendency (mode, median, and/or mean) for each variable:
   1. Region of the world
   2. Years of schooling
   3. Mortality rate (per 1,000) for children under 5
2. Describe what you found in detail. Use the numbers, and explain what the measures you calculated mean. Where appropriate, report whether the distribution is positively skewed, negatively skewed, or (mostly) symmetrical. Explain why you say this.
3. Explain the reasoning behind the measures of central tendency that you did **NOT** calculate for each variable (e.g., If for one of the variables you calculated mode and mean, but not median, why didn’t you calculate the median? What was not useful about the median for that variable?)
4. Choose **EITHER** years of schooling or the child mortality rate, and re-code this variable into an ordinal variable. Construct a table of the frequency, percentage, and cumulative percentage distributions for your new ordinal variable.
   1. What is the mode and median for your new variable?
   2. Describe your findings in detail (you can report the mode and median within this description).

Table 1: Region, Educational Attainment, and Child Mortality for Selected Countries

|  |  |  |  |
| --- | --- | --- | --- |
| **Country** | **Region** | **Years of schooling** | **Child mortality per 1,000 births** |
| Albania | Europe | 9.26 | 17.40 |
| Australia | Oceania | 12.96 | 4.90 |
| Bolivia | South America | 8.15 | 43.10 |
| Bosnia and Herzegovina | Europe | 7.21 | 7.00 |
| Brazil | South America | 6.99 | 15.30 |
| Costa Rica | North & Central America | 8.31 | 10.10 |
| Croatia | Europe | 11.03 | 4.90 |
| Cyprus | Asia | 11.46 | 3.40 |
| Dominican Republic | North & Central America | 7.36 | 28.00 |
| El Salvador | North & Central America | 6.35 | 16.50 |
| Ethiopia | Africa | 2.41 | 71.90 |
| France | Europe | 11.04 | 4.20 |
| Germany | Europe | 13.32 | 4.10 |
| Guatemala | North & Central America | 5.60 | 33.10 |
| Honduras | North & Central America | 5.53 | 23.70 |
| Indonesia | Asia | 7.51 | 32.30 |
| Israel | Asia | 12.46 | 4.40 |
| Kuwait | Asia | 7.21 | 11.10 |
| Lithuania | Europe | 12.40 | 6.10 |
| Mali | Africa | 2.04 | 132.70 |
| Malta | Europe | 9.57 | 6.80 |
| Mauritius | Africa | 8.54 | 14.90 |
| Mexico | North & Central America | 8.47 | 16.70 |
| Montenegro | Europe | 11.16 | 6.40 |
| Netherlands | Europe | 11.83 | 4.30 |
| Pakistan | Asia | 4.73 | 87.90 |
| Peru | South America | 9.01 | 19.10 |
| Poland | Europe | 11.76 | 5.40 |
| Portugal | Europe | 8.03 | 3.70 |
| Qatar | Asia | 8.64 | 7.70 |
| Romania | Europe | 10.69 | 12.80 |
| Senegal | Africa | 2.42 | 63.00 |
| Serbia | Europe | 8.78 | 7.20 |
| Slovenia | Europe | 11.86 | 3.20 |
| South Africa | Africa | 9.70 | 47.20 |
| Spain | Europe | 9.51 | 4.60 |
| Tonga | Oceania | 11.06 | 13.30 |
| Turkey | Asia | 7.43 | 15.00 |
| United Kingdom | Europe | 13.75 | 5.00 |
| United States | North & Central America | 12.93 | 7.30 |
| Uruguay | South America | 8.38 | 7.90 |
| West Bank and Gaza | Asia | 8.60 | 23.20 |

Source: The World Bank