

## Project Question

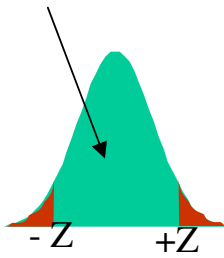
Completing this assignment requires knowledge of Excel (or any similar statistical package) accessible in Clark University Computer Labs. If you need instruction in Excel, contact the TA or myself for assistance.

- a) From the dataset that you selected in Assignment 1, select an Endogenous Variable - a variable that you want to explain. Then select one Exogenous Variable, the variable that you believe best explains the Endogenous Variable. Write a summary of why you think that there is a relationship (i.e. cut and paste from assignment 1).
- b) Create a histogram of the Endogenous Variable. Briefly describe the properties of the data (average, standard deviation, shape of the distribution (normal, symmetric, etc), etc.).

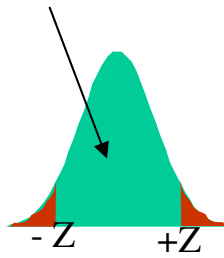
## Questions from the text

1. Question 11, pp. 27.
2. Question 3, pp. 50.
3. Question 4, pp. 51.
4. Question 9, pp. 53.
5. Question 8, pp. 75.
6. Question 9, pp. 75.
7. Question 10, pp. 75.
8. Question 5, pp. 94.
9. Question 6, pp. 95.
10. Question 8, pp. 95.

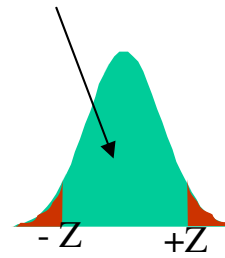
Area from  $-Z$  to  $+Z$



Area from  $-Z$  to  $+Z$



Area from  $-Z$  to  $+Z$



| <b>Z</b> | Area Under Curve from $-Z$ to $+Z$ | <b>Z</b> | Area Under Curve from $-Z$ to $+Z$ | <b>Z</b> | Area Under Curve from $-Z$ to $+Z$ |
|----------|------------------------------------|----------|------------------------------------|----------|------------------------------------|
| 0.000    | 0.00                               | 1.500    | 86.64                              | 3.000    | 99.730                             |
| 0.050    | 3.99                               | 1.550    | 87.89                              | 3.050    | 99.771                             |
| 0.100    | 7.97                               | 1.600    | 89.04                              | 3.100    | 99.806                             |
| 0.150    | 11.92                              | 1.650    | 90.11                              | 3.150    | 99.837                             |
| 0.200    | 15.85                              | 1.700    | 91.09                              | 3.200    | 99.863                             |
| 0.250    | 19.74                              | 1.750    | 91.99                              | 3.250    | 99.885                             |
| 0.300    | 23.58                              | 1.800    | 92.81                              | 3.300    | 99.903                             |
| 0.350    | 27.37                              | 1.850    | 93.57                              | 3.350    | 99.919                             |
| 0.400    | 31.08                              | 1.900    | 94.26                              | 3.400    | 99.933                             |
| 0.450    | 34.73                              | 1.950    | 94.88                              | 3.450    | 99.944                             |
| 0.500    | 38.29                              | 2.000    | 95.45                              | 3.500    | 99.953                             |
| 0.550    | 41.77                              | 2.050    | 95.96                              | 3.550    | 99.961                             |
| 0.600    | 45.15                              | 2.100    | 96.43                              | 3.600    | 99.968                             |
| 0.650    | 48.43                              | 2.150    | 96.84                              | 3.650    | 99.974                             |
| 0.700    | 51.61                              | 2.200    | 97.22                              | 3.700    | 99.978                             |
| 0.750    | 54.67                              | 2.250    | 97.56                              | 3.750    | 99.982                             |
| 0.800    | 57.63                              | 2.300    | 97.86                              | 3.800    | 99.986                             |
| 0.850    | 60.47                              | 2.350    | 98.12                              | 3.850    | 99.988                             |
| 0.900    | 63.19                              | 2.400    | 98.36                              | 3.900    | 99.990                             |
| 0.950    | 65.79                              | 2.450    | 98.57                              | 3.950    | 99.992                             |
| 1.000    | 68.27                              | 2.500    | 98.76                              | 4.000    | 99.9937                            |
| 1.050    | 70.63                              | 2.550    | 98.92                              | 4.050    | 99.9949                            |
| 1.100    | 72.87                              | 2.600    | 99.07                              | 4.100    | 99.9959                            |
| 1.150    | 74.99                              | 2.650    | 99.20                              | 4.150    | 99.9967                            |
| 1.200    | 76.99                              | 2.700    | 99.31                              | 4.200    | 99.9973                            |
| 1.250    | 78.87                              | 2.750    | 99.40                              | 4.250    | 99.9979                            |
| 1.300    | 80.64                              | 2.800    | 99.49                              | 4.300    | 99.9983                            |
| 1.350    | 82.30                              | 2.850    | 99.56                              | 4.350    | 99.9986                            |
| 1.400    | 83.85                              | 2.900    | 99.63                              | 4.400    | 99.9989                            |
| 1.450    | 85.29                              | 2.950    | 99.68                              | 4.450    | 99.9991                            |