**Descriptive Statistics Practice Problems**

1. Calculate the geometric mean of {4, 16, 64, 256}
2. Calculate the median of {3, 1, 2, 3, 5}
3. Calculate the sample variance of {2, 4, 5, 8, 10}
4. Calculate the sample standard deviation of {2, 4, 5, 8, 10} (hint: use the answer from the last question)
5. Calculate the range of {90, 3, 25, 60, 200, 100}
6. Find the rank of the value in the 40th percentile of a dataset where n=65
7. Calculate the population covariance of x:{2, 4, 6, 8} and y:{1, 3, 1, 5}
8. Calculate the correlation coefficient of x:{2, 4, 6, 8} and y:{1, 3, 1, 5}

**Answers (but it’s not graded and if you cheat, you’re only cheating yourself)**

1. 32
2. 3 (not 2)
3. 10.2
4. 3.19
5. 197
6. 26.4 rounds up to 27th place
7. 2.5
8. 67.4