Final revision paper in statistics:

Edited at 10am 15.1.2017.

s is your student number. k = s mod 10000. T = s mod 100. m = s mod 35. a = s mod 25.

L = s mod 10. $d\_{2}=\frac{T-L}{10}$. e = s mod 8. m7 = s mod 7. m6 = s mod 6. m4 = s mod 4. m3 = s mod 3.

http://statistics4students.weebly.com/uploads/5/9/8/5/59854633/sktmaled2.xlsx

1. Give the sample space for two T-sided dices.

2. Draw the tree diagram of tossing L+2 fair coins.

3. Find the outliers in your s, DoB or any other unique data.

https://graphpad.com/quickcalcs/Grubbs1.cfm

http://www.miniwebtool.com/outlier-calculator/

4. Give the confidence interval at the confidence level of 1 – 1/T, sample size s, sample standard deviation k and sample mean T.

http://www.wolframalpha.com/widget/widgetPopup.jsp?p=v&id=974e2945a18e0bfb8e3aa8becac3e65c&title=Confidence+Interval+Calculator&theme=blue&i0=0.99&i1=12&i2=260.1&i3=4263.1&podSelect&includepodid=Xx%25ConfidenceInterval&showAssumptions=1&showWarnings=1

5. Calculate CDF for PDF = Tx+m @[1/k,1/T].

6. Randomly generate 9 numbers from 1 to T. Find PDF and CDF.

7. Randomly generate 9 numbers from 1 to T.

Find the continuous PDF using the linear least squares approximation. Find PDF and CDF.

8. Calculate the difference between the distributions of digits in your s and DoB using the Student’s test.

https://www.graphpad.com/quickcalcs/ttest2/

9. Find Z score for your data.

http://www.socscistatistics.com/tests/ztest/

http://www.socscistatistics.com/tests/ztest\_sample\_mean/Default2.aspx

http://in-silico.net/tools/statistics/ztest/

10. Perform the statistical tests for your data.

http://www.socscistatistics.com/tests/

http://www.physics.csbsju.edu/stats/KS-test.n.plot\_form.html

http://scistatcalc.blogspot.co.id/2013/11/kolmogorov-smirnov-test-calculator.html

11. Solve Zimmermann Polygonal Areas problem.

http://azspcs.com/Contest/PolygonalAreas

Submit as many different areas solutions as possible in the form (1,2), (2,6), (3,4), (4,5), (6,3), (5,1) going clockwise or anti-clockwise along the border of the polygon for 11, 17, 23, 29, 37, 47, 59, 71, 83, 97, 113, 131, 149, 167, 191, 223, 257, 293, 331, 373, 419, 467, 521. For each problem we need maximum and minimum areas polygons.

http://discrete4math.weebly.com/uploads/2/5/3/9/25393482/11polygonal11areas11zimmermann11.txt

Assess the probability of randomly guessing the solution.

12. Improve your project.

Deadline: before the final exam.