A level Maths Applied Calculator Functions

Year 1

Measures of Location and Spread

- Calculating Mean, SD and Quartiles etc. from Cumulative Frequency Tables
    1. Press MENU
    2. Press 6 (statistics)
    3. Press 1 (1-variable)
    4. Enter x values (midpoint if range of values) and Frequency
    5. Press AC
    6. Press OPTN
    7. Press 2 (1- Variable Calc)
    8. All the data is presented

Statistical Distribution

- Binomial distribution (X=)
    1. Press MENU
    2. Press 7 (Distribution)
    3. Press 4- Binomial PD
    4. Press 2- Variable
    5. Put in all values
- Binomial distribution (X <)
    1. Press MENU
    2. Press 7 (Distribution)
    3. Go down and press 1- Binomial CD
    4. Press 2- Variable
    5. Put in all values
    6. If you want to calculate >, calculate < and then do 1-ANS.

Hypothesis Testing

- Finding critical regions for one tailed and two tailed tests (X < OR >)
    1. Press MENU
    2. Press 7 (Distribution)
    3. Go down and press 1- Binomial CD
    4. Press 2- Variable
    5. Put in all values (significance level is half when two tailed test)
    6. If you want to calculate >, calculate < and then do 1-ANS.
- Finding exact probabilities (X=)
    1. Press MENU
    2. Press 7 (Distribution)
    3. Press 4- Binomial PD
    4. Press 2- Variable
    5. Put in all values

Year 2

Correlation

- Calculating regression value
    1. Press Setup (Shift and Menu)
    2. Go down and press 3 (Statistics)
    3. Press 2 (OFF)
    4. Go to MENU
    5. Press 6 (Statistics)
    6. Press 2 (y=a+bx)
    7. Input x and y values
    8. Press AC
    9. Press OPTN
    10. Select 3 (Regression Calc)
    11. Values presented

The Normal Distribution

- Normal distribution (X<)
    1. Press MENU
    2. Press 7 (Distribution)
    3. Press 1- Normal CD
    4. Put in bounds (put lower bound as -1000 and upper bound as 1000 if value not given)
    5. Put in mean and SD values
    6. Press =
- Normal distribution (X=)
    1. Press MENU
    2. Press 7 (Distribution)
    3. Press 2- Normal PD
    4. Put in all values
    5. Press =
- Inverse Normal Distribution (to find X < a)
    1. Press MENU
    2. Press 7 (Distribution)
    3. Press 3 – Inverse Normal
    4. Put in values (area is X < a= <u>y</u>)
    5. Press =