# **General Mathematics UDF Guide**

Version 1.0

LazyMath

Acknowledgements

A huge thank you to everyone who helped test the UDFs  $\mathfrak{S}$ 

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## **Data Analysis**

### **Summary Statistics**

Determines the quartiles, fences, mean, and standard deviation of the input data.

#### Syntax

sum\_stats(Data)

Where, Data represents a list containing the data to be analysed.

#### Example

The number of points a pro gamer scores on Flappy Bird over 10 games is shown in the table below.

| Game  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  |
|-------|----|----|----|----|----|----|----|----|----|-----|
| Score | 12 | 47 | 58 | 73 | 20 | 31 | 10 | 22 | 17 | 250 |

Determine the quartiles, fences, and outliers (if any).

score\_data

summary\_stats(score\_data)

 $\{12.,47.,58.,73.,20.,31.,10.,22.,17.,250.\}$ 

Total = 10

|   | Data Summary:                   |            |  |  |  |  |
|---|---------------------------------|------------|--|--|--|--|
|   | "Minimum"                       | 10.        |  |  |  |  |
|   | "Q1"                            | 17.        |  |  |  |  |
|   | "Q2"                            | 26.5       |  |  |  |  |
|   | "Q3"                            | 58.        |  |  |  |  |
|   | "Maximum"                       | 250.       |  |  |  |  |
|   | "IQR"                           | 41.        |  |  |  |  |
|   | "Lower Fence"                   | -44.5      |  |  |  |  |
|   | "Upper Fence"                   | 119.5      |  |  |  |  |
|   | "Range"                         | 240.       |  |  |  |  |
|   | "Mean"                          | 54.        |  |  |  |  |
|   | "Standard Dev"                  | 71.972     |  |  |  |  |
|   | "Skew"                          | "Positive" |  |  |  |  |
| , | Warning: Skew may be inaccurate |            |  |  |  |  |

▶Possible outliers:

{250.}

Sorted data saved as data.summary\_stats

Warning: Skew may be inaccurate

### **Dot Plot**

Determines the summary statistics of an input dot plot.

#### **Syntax**

#### dot\_plot(Data)

Where, *Data* represents a matrix with the *x*-values in the top row, and the *y*-values in the bottom row.

#### Example

The dot plot shows the times, in seconds, of 40 runners in the qualifying heats of their 800 m club

championship.



Source: VCAA 2023 General Mathematics Examination 1 Question 1

Determine the median and skew of the data.

|                              | 3 146<br>1 | 143<br>1 | 142<br>1 | 141<br>1 | 140<br>2 | 139<br>2 | 138<br>4 | 137<br>6 | 136<br>11 | 135<br>8 | $dot_plot \begin{bmatrix} 134\\ 3 \end{bmatrix}$ |
|------------------------------|------------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|--|
| al = 40                      |            |          |          |          |          |          |          |          |           |          |  |
| ata Summary:                 |            |          |          |          |          |          |          |          |           |          |  |
| Minimum" 134.                |            |          |          |          |          |          |          |          |           |          |  |
| "Q1" 135.                    |            |          |          |          |          |          |          |          |           |          |  |
| "Q2" 136.                    |            |          |          |          |          |          |          |          |           |          |  |
| "Q3" 138.                    |            |          |          |          |          |          |          |          |           |          |  |
| Maximum" 146.                |            |          |          |          |          |          |          |          |           |          |  |
| "IQR" 3.                     |            |          |          |          |          |          |          |          |           |          |  |
| ower Fence" 130.5            |            |          |          |          |          |          |          |          |           |          |  |
| pper Fence" 142.5            |            |          |          |          |          |          |          |          |           |          |  |
| "Range" 12.                  |            |          |          |          |          |          |          |          |           |          |  |
| "Mean" 137.05                |            |          |          |          |          |          |          |          |           |          |  |
| andard Dev" 2.5715           |            |          |          |          |          |          |          |          |           |          |  |
| "Skew" "Positive"            |            |          |          |          |          |          |          |          |           |          |  |
| ssible outliers:             |            |          |          |          |          |          |          |          |           |          |  |
| 3.,146.}                     |            |          |          |          |          |          |          |          |           |          |  |
| ed data saved as data.dot_pl |            |          |          |          |          |          |          |          |           |          |  |
| Do                           |            |          |          |          |          |          |          |          |           |          |  |

Warning: Skew may be inaccurate.

### Histogram

Determines the summary statistics of an input histogram.

#### Syntax

#### histogram(Data)

Where, *Data* represents a matrix with the *x*-values in the top row, and the *y*-values in the bottom row.

#### Example

The histogram below displays the distribution of *skull width*, in millimeters, for 46 female possums.



Source: VCAA 2022 Further Mathematics Written Examination 1 Question 1

 $histogram \begin{bmatrix} 49 & 50 & 51 & 52 & 53 & 54 & 55 & 56 & 57 & 58 & 59 & 60 & 67 \\ 1 & 1 & 2 & 1 & 2 & 5 & 6 & 11 & 7 & 5 & 3 & 1 & 1 \end{bmatrix}, 1$ 

| VL - | - | - | - | _ | - | - |  | <br>- | - 1 / |                  |                 |        |
|------|---|---|---|---|---|---|--|-------|-------|------------------|-----------------|--------|
|      |   |   |   |   |   |   |  |       |       | Total = 46       |                 |        |
|      |   |   |   |   |   |   |  |       |       | ▶Data Summary    |                 |        |
|      |   |   |   |   |   |   |  |       |       | "Minimum"        | "49-50"         |        |
|      |   |   |   |   |   |   |  |       |       | "Q1"             | "54-55"         |        |
|      |   |   |   |   |   |   |  |       |       | "Q2"             | "56-57"         |        |
|      |   |   |   |   |   |   |  |       |       | "Q3"             | "57-58"         |        |
|      |   |   |   |   |   |   |  |       |       | "Maximum"        | "67-68"         |        |
|      |   |   |   |   |   |   |  |       |       | "IQR"            | "2-4"           |        |
|      |   |   |   |   |   |   |  |       |       | "Lower Fence"    | "48-52"         |        |
|      |   |   |   |   |   |   |  |       |       | "Upper Fence"    | "60-64"         |        |
|      |   |   |   |   |   |   |  |       |       | "Range"          | "17–19"         |        |
|      |   |   |   |   |   |   |  |       |       | ▶Approximate v   | alues:          |        |
|      |   |   |   |   |   |   |  |       |       | "Mean"           | 56.326          |        |
|      |   |   |   |   |   |   |  |       |       | "Standard Dev"   | 2.9235          |        |
|      |   |   |   |   |   |   |  |       |       | "Skew"           | "Negative"      | ]      |
|      |   |   |   |   |   |   |  |       |       | Warning: Skew    | may be inaccu   | rate   |
|      |   |   |   |   |   |   |  |       |       | ▶Possible outlie | rs:             |        |
|      |   |   |   |   |   |   |  |       |       | { "49-50", "67-6 | 58"}            |        |
|      |   |   |   |   |   |   |  |       |       | Sample data sav  | ed as data.hist | togram |
|      |   |   |   |   |   |   |  |       |       |                  |                 |        |

Done

Warning: Skew may be inaccurate. Contact lazymath2024@gmail.com

### **Frequency Table**

Determines the frequency table of the input data list.

#### Syntax

freq\_table(Data, Minimum, Bin Size)

Where,

Data represents a list containing the data

Minimum represents the starting point of the frequency table

Bin Size represents the size of each bin in the frequency table

#### Example

Determine the frequency table of the following data.

 $\{35, 48, 45, 43, 38.2, 50, 39.8, 40.7, 40, 50, 35.4, 38.8, 40.2, 45, 45, 40, 43.3, 53.1, 35.6, 44.1, 34.8\}$ 

Start your table from 30 and use a bin size of 5.

 $freq\_table(\{35, 48, 45, 43, 38, 2, 50, 39, 8, 40, 7, 40, 50, 35, 4, 38, 8, 40, 2, 45, 45, 40, 43, 3, 53, 1, 35, 6, 44, 1, 34, \$, 30, 5)$ 

| ▶Frequency | Table:      |              |
|------------|-------------|--------------|
| "Interval" | "Frequency" | "Percentage" |
| "30-<35"   | 1.          | 4.7619       |
| "35-<40"   | 6.          | 28.571       |
| "40-<45"   | 7.          | 33.333       |
| "45-<50"   | 4.          | 19.048       |
| "50-<55"   | 3.          | 14.286       |
| "Total"    | 21.         | 100.         |
|            |             |              |

Done

### **Inverse Normal**

Uses the 68-95-99.7% rule alongside the given mean and standard deviation to determine the values for

which Pr(X > x) = %p and Pr(X < x) = %p.

#### Syntax

norm\_inverse(Mean, Standard Deviation, Percentage Probability)

Where,

Mean represents the mean of the normal distribution

Standard Deviation represents the standard deviation of the normal distribution

Percentage Probability represents the percentage probability of being less than or greater than a value

#### Example

The weight of dogs is normally distributed with a mean of 30 kg with a standard deviation of 3.4 kg.

Using the 68-95-99.7% rule, determine the weight which 16% of dogs are less than.

norm\_inverse(30,3.4,16)

▶Given:
x̄ = 30 and sx = 3.4
▶Answer:
16% of values are less than 26.6
16% of values are greater than 33.4

Done

### **Normal Bound**

Uses the 68-95-99.7% rule to determine the cumulative percentage probability between two bounds, that

is,  $Pr(x_1 < X < x_2)$  %.

#### Syntax

norm\_bound(Mean, Standard Deviation, Lower Bound, Upper Bound)

Where,

Mean represents the mean of the normal distribution

Standard Deviation represents the standard deviation of the normal distribution

Lower Bound represents the lower bound in the probability expression

Upper Bound represents the upper bound in the probability expression

#### Example

The weight of dogs is normally distributed with a mean of 30 kg with a standard deviation of 3.4 kg.

Using the 68-95-99.7% rule, determine the percentage of dogs which weigh between 26.6 kg and 36.8 kg.

| norm_b | ound(30,3 | 3.4,26.6, | 36.8) |
|--------|-----------|-----------|-------|
|--------|-----------|-----------|-------|

| Given:   |
|--|
| $\bar{\mathbf{x}} = 30 \text{ and } \mathbf{sx} = 3.4$ |
| Answer:  |
| 81.5% of the values are between 26.6 and 36.8          |
| Done   |

### **Normal Solve**

Uses the 68-95-99.7% rule to determine the mean and standard deviation of a normal distribution, given

two probabilities,  $Pr(X < x_1) = p_1\%$  and  $Pr(X > x_2) = p_2\%$ .

#### Syntax

normsolve(Lower, % Pr(Lower), Upper, %Pr(Upper))

#### Where,

*Lower* represents the value,  $x_1$ 

% *Pr*(*Lower*) represents the percentage probability of  $X < x_1$ , in other words,  $p_1$ %

*Upper* represents the value,  $x_2$ 

% *Pr*(*Upper*) represents the percentage probability of  $X > x_2$ , in other words,  $p_2$ %

#### Example

The mean and standard deviation for the average weight of dogs is unknown.

After conducting some measurements, scientists determined that:

- 2.5% of dogs weigh more than 36.8 kg
- 16% of dogs weigh less than 26.6 kg

Use the 68-95-99.7% rule to determine, in kilograms, the mean and standard deviation.

norm\_solve(26.6,16,36.8,2.5)

| Given:  |
|---|
| 16% of values are less than 26.6                                  |
| 2.5% of values are greater than 36.8                              |
| Determine the number of sx from $\bar{x}$ using 68–95–99.7% rule: |
| 26.6 is <sup>-1</sup> sx from $\bar{\mathbf{x}}$                  |
| 36.8 is 2 sx from $\bar{\mathbf{x}}$                              |
| Determine the equations:  |
| $26.6 = \bar{\mathbf{x}} - sx$                                    |
| $36.8 = \bar{\mathbf{x}} + 2sx$                                   |
| Solve equations simultaneously for $\bar{\mathbf{x}}$ and sx:     |
| sx=3.4 and $\bar{\mathbf{x}}$ =30.                                |
|   |

### Line Solve

Determines the equation of the line passing through two input points.

#### Syntax

*lin\_solve*(*x1*, *y1*, *x2*, *y2*)

Where, x1, y1, x2, y2 represent the x and y coordinates of the two points respectively

#### Example



Source: VCAA 2023 General Mathematics Examination 2 Q7 & Q8

Determine the equation for the least squares line.

$$lin\_solve(16, 18, 34, 46)$$
  $y=1.5556 \cdot x - 6.8889$ 

### **Linear Regression**

Determines the least squares line, R, R<sup>2</sup>, and association between the explanatory variable and the

response variable.

#### Syntax

*lin\_reg(EV, RV)* 

Where,

EV represents a list containing the values of the explanatory variable

RV represents a list containing the values of the response variable

#### Example

The amount of money a student earns from their stocks each year is shown in the table below.

| Year           | 1    | 2    | 3    | 4     | 5     | 6     | 7     | 8     |
|----------------|------|------|------|-------|-------|-------|-------|-------|
| Amount<br>(\$) | 2.50 | 6.70 | 8.90 | 10.50 | 11.70 | 16.20 | 17.50 | 19.20 |

Determine the equation for the line of best fit of the data.

ev

{1.,2.,3.,4.,5.,6.,7.,8.}

rv

{2.5,6.7,8.9,10.5,11.7,16.2,17.5,19.2}

lin\_reg(ev,rv)

Length = 8

Linear Regression:

| "Equation"       | <i>y</i> =2.3095· <i>x</i> +1.2571 |
|------------------|------------------------------------|
| "R"              | 0.98899                            |
| "R²"             | 0.9781                             |
| "Association "   | "strong positive"                  |
| 'Interpolation " | "1≤x≤8"                            |

### **Linear Transformations**

Determines the least squares line and R<sup>2</sup> of various transformations of the explanatory and response

variables. These include squaring, reciprocal, and log10.

#### Syntax

lin\_trans(EV, RV)

Where,

EV represents a list containing the values of the explanatory variable

*RV* represents a list containing the values of the response variable

#### Example

The amount of money a student earns from their stocks each year is shown in the table below.

| Year           | 1    | 2    | 3    | 4     | 5     | 6     | 7     | 8     |
|----------------|------|------|------|-------|-------|-------|-------|-------|
| Amount<br>(\$) | 2.50 | 6.70 | 8.90 | 10.50 | 11.70 | 16.20 | 17.50 | 19.20 |

Determine the least squares line with  $log_{10}(amount)$  as the explanatory variable.

ev

rv

{2.5,6.7,8.9,10.5,11.7,16.2,17.5,19.2}

 $\{1., 2., 3., 4., 5., 6., 7., 8.\}$ 

*lin\_trans*(*ev*,*rv*)

| ▶Transform        | ms:      |                                     |
|-------------------|----------|-------------------------------------|
| ["Trans"          | "R²"     | "Equation"                          |
| "x"               | "0.9781" | "y=2.3095x+1.2571"                  |
| "x <sup>2</sup> " | "0.9104" | "y=0.24168x <sup>2</sup> +5.4871"   |
| "y²"              | "0.9556" | "y <sup>2</sup> =52.617x-72.426"    |
| "log(x)"          | "0.9375" | "y=18.13log(x)+1.2126"              |
| "log(y)"          | "0.8464" | "log(y)=0.10845x+0.51181"           |
| "x-1"             | "0.7640" | "y=-17.02x <sup>-1</sup> +17.432"   |
| [ "y⁻1"           | "0.6002" | "y <sup>-1</sup> =-0.0364x+0.29046" |

### Residuals

Determines the least squares line fit and the differences between the true values and predicted values.

#### **Syntax**

residual(EV, RV)

Where,

EV represents a list containing the values of the explanatory variable

RV represents a list containing the values of the response variable

#### Example

The amount of money a student earns from their stocks each year is shown in the table below.

| Year        | 1    | 2    | 3    | 4     | 5     | 6     | 7     | 8     |
|-------------|------|------|------|-------|-------|-------|-------|-------|
| Amount (\$) | 2.50 | 6.70 | 8.90 | 10.50 | 11.70 | 16.20 | 17.50 | 19.20 |

Determine the residual value for each year.

ev

rv

{1.,2.,3.,4.,5.,6.,7.,8.} {2.5,6.7,8.9,10.5,11.7,16.2,17.5,19.2}

residual(ev,rv)

| "y"  | "ŷ"    | "Residual" |
|------|--------|------------|
| 2.5  | 3.5667 | -1.0667    |
| 6.7  | 5.8762 | 0.82381    |
| 8.9  | 8.1857 | 0.71429    |
| 10.5 | 10.495 | 0.00476    |
| 11.7 | 12.805 | -1.1048    |
| 16.2 | 15.114 | 1.0857     |
| 17.5 | 17.424 | 0.07619    |
| 19.2 | 19.733 | -0.53333   |

Done

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### **Mean Smoothing**

Performs mean smoothing on the provided dataset and returns the result. Points which are marked with a

blank string indicate they are invalid.

#### Syntax

mean\_smooth(Data, Size)

Where,

Data represents a list containing the data to be mean smoothed

Size represents the group size which is used in smoothing

#### Example

The number of sales made by a company for the first eight months of 2025 is shown in the table below.

| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| Sales | 200 | 250 | 100 | 350 | 450 | 500 | 890 | 320 |

Determine the four-mean smoothed data, with centering.

data

{200.,250.,100.,350.,450.,500.,890.,320.}

 $mean\_smooth(data,4)$ 

| "x" | "y"    |
|-----|--------|
| 1.  | "Ď"    |
| 2.  | "()"   |
| 3.  | 256.25 |
| 4.  | 318.75 |
| 5.  | 448.75 |
| 6.  | 543.75 |
| 7.  | "[]"   |
| 8.  | "()" . |
|     |        |

Done

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### **Median Smoothing**

Performs median smoothing on the provided dataset and returns the result. Points which are marked with

a blank string indicate they are invalid.

#### Syntax

med\_smooth(Data, Size)

Where,

Data represents a list containing the data to be median smoothed

Size represents the group size which is used in smoothing

#### Example

The number of sales made by a company for the first eight months of 2025 is shown in the table below.

| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |  |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Sales | 200 | 250 | 100 | 350 | 450 | 500 | 890 | 320 |  |

Determine the three-median smoothed data.

data

{200.,250.,100.,350.,450.,500.,890.,320.}

 $med\_smooth(data,3)$ 

| ["x" | "y"   |
|------|-------|
| 1.   | "[]"  |
| 2.   | 200.  |
| 3.   | 250.  |
| 4.   | 350.  |
| 5.   | 450.  |
| 6.   | 500.  |
| 7.   | 500.  |
| 8.   | "()", |
|      |       |

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### **Seasonal Data**

Determines the seasonal averages, seasonal indices, deseasonalised data, and the least square line fit of

the deasonalised data. Rounding for each calculation step can be specified using the appropriate syntax.

#### Syntax

Case 1: Exact values

season(Data)

Where, *Data* represents the matrix containing the data, with each row representing one cycle and each column representing one period.

#### Note

In SACs and exams, you will have to round your answers at each stage. This case would be useful for checking your answers rather than obtaining the answers.

Case 2: Rounded values

season({"Data", Round\_1, Round\_2, Round\_3, Round\_4})

Where,

"Data" represents a string containing the name of the variable used to store the data

Round\_1 represents the number of decimal places to round the average of each cycle to

Round\_2 represents the number of decimal places to round the seasonal indices to

Round\_3 represents the number of decimal places to round the average of the seasonal indices to

Round\_4 represents the number of decimal places to round the deseasonilised data to

#### Note

All of the above must be inputted in sequence as a list

#### Example

The sales data for a clothing store was tracked quarterly for three years.

| Year    | 2025 |    |    | 2026 |    |    |    | 2027 |    |    |    |    |
|---------|------|----|----|------|----|----|----|------|----|----|----|----|
| Quarter | 1    | 2  | 3  | 4    | 1  | 2  | 3  | 4    | 1  | 2  | 3  | 4  |
| Sales   | 82   | 57 | 42 | 43   | 88 | 59 | 48 | 50   | 97 | 65 | 52 | 55 |

- a. Calculate the sales average for each quarter. Give your answer correct to two decimal places.
- **b.** Calculate the seasonal indices for each sale. Give your answer correct to three decimal places.
- **c.** Calculate the average of the seasonal indices for each sale. Give your answer correct to two decimal places.
- **d.** Deseasonalise the data. Give your answer correct to the nearest whole number.
- e. Determine the least squares line fit for the deseasonalised data.

#### Case 1

| data         | 82.         57.         42.         43.           88.         59.         48.         50.           97.         65.         52.         55. |
|--------------|---|
| season(data) |   |
|              | Season UDF:   |
|              | ▶ Find averages for each cycle:   |
|              | ["Season" 1. 2. 3. 4. "Avg"]  |
|              | "Cycle 1." 82. 57. 42. 43. 56.  |
|              | "Cycle 2." 88. 59. 48. 50. 61.25  |
|              | ["Cycle 3." 97. 65. 52. 55. 67.25]  |
|              | ▶ Find indicies and take their average:   |
|              | "Season" 1. 2. 3. 4.  |
|              | "Cycle 1." 1.4643 1.0179 0.75 0.76786   |
|              | "Cycle 2." 1.4367 0.96327 0.78367 0.81633   |
|              | "Cycle 3." 1.4424 0.96654 0.77323 0.81784   |
|              | ["Avg" 1.4478 0.98256 0.76897 0.80068]  |
|              | Deseasonalise the data:   |
|              | ["Season" 1. 2. 3. 4.]  |
|              | "Cycle 1." 56.638 58.012 54.619 53.705  |
|              | "Cycle 2." 60.782 60.048 62.421 62.447  |
|              | ["Cycle 3." 66.998 66.154 67.623 68.692]  |
|              | ▶Find LSR fit of deseasonalised data:   |
|              | y=1.3066x+53.019  |

Note: This may not provide the answers the marker will be looking for since it uses the exact value at

each stage rather than the rounded values. Contact

#### Case 2

| data                             | 82.  | 57. | 42.         | 43.  |
|----------------------------------|------|-----|-------------|------|
|                                  | 88.  | 59. | <b>48</b> . | 50.  |
|                                  | [97. | 65. | 52.         | 55.] |
| $season(\{"data", 2, 3, 2, 0\})$ |      |     |             |      |

#### ▶Season UDF:

#### ▶ Find averages for each cycle:

| "Season"                              | 1.   | 2.          | 3.          | 4.   | "Avg"   |  |  |  |  |
|---------------------------------------|------|-------------|-------------|------|---------|--|--|--|--|
| "Cycle 1."                            | 82.  | 57.         | 42.         | 43.  | 56.     |  |  |  |  |
| "Cycle 2."                            | 88.  | 59.         | <b>48</b> . | 50.  | 61.25   |  |  |  |  |
| "Cycle 3."                            | 97.  | 65.         | 52.         | 55.  | 67.25   |  |  |  |  |
| Find indicies and take their average: |      |             |             |      |         |  |  |  |  |
| "Season"                              | 1.   |             | 2.          | 3.   | 4.      |  |  |  |  |
| "Cycle 1."                            | 1.46 | i4 1        | .018        | 0.75 | 0.768   |  |  |  |  |
| "Cycle 2."                            | 1.43 | <b>57</b> 0 | .963        | 0.78 | 4 0.816 |  |  |  |  |
| "Cycle 3."                            | 1.44 | 2 0         | .967        | 0.77 | 3 0.818 |  |  |  |  |
| "Avg"                                 | 1.4  | 5 (         | 0.98        | 0.77 | 0.8     |  |  |  |  |
| Deseasonalise the data:               |      |             |             |      |         |  |  |  |  |
| "Season"                              | 1.   | 2.          | 3.          | 4.   |         |  |  |  |  |
| "Cycle 1."                            | 57.  | 58.         | 55.         | 54.  |         |  |  |  |  |
|                                       |      |             |             |      |         |  |  |  |  |

"Cycle 2." 61. 60. 62. 63. "Cycle 3." 67. 66. 68. 69.

▶Find LSR fit of deseasonalised data: y=1.3007x+53.212

### **Significant Figures**

Rounds an input number to a specific number of significant figures.

#### Syntax

sig\_fig(Number, SF)

Where,

*Number* represents the number to round

SF represents the number of significant figures to round the number to

#### Example

Round the number 14.520010 to five significant figures.

"14.520"