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Diploma in Statistics Checklist

Diploma in Statistics

## Progress Indicator

Name: Yann GEFFROTIN
Progress: 100.00\% 0\% $\quad 100 \%$
Total Time: 01:32:12
Points: 40
Last Access: 2011-08-14 18:41:55
Certified: Yes (Claim your Certificate)

The table below shows your progress in details, it also show you what topic/modules you failed or did not study. Click on the module link where you want to complete or re-attempt.

Detailed Course Completion Report

Diploma-in-Statistics: Collecting and analysing data
First access: Sunday, 14 August 2011, 06:05 PM (1 h 58 m)
Last access: Sunday, 14 August 2011, 06:05 PM (1 h 58 m)

## Report:

- Collecting and analysing data
-     - Collecting and analysing data
-     - Summarising data - overview
- $\quad$ Status: completed
- Total Time: 00:01:03
- $\quad$ Mode
- Status: completed
- Total Time: 00:01:16
- Mean
-     - Status: completed
- Total Time: 00:01:18
- I Median
- Status: completed
- Total Time: 00:01:20
- Mode, mean, median
- $\quad$ Status: completed
- Total Time: 00:01:22
- Comparing mode, mean, median
- Status: completed
- Total Time: 00:01:17
- Range of data
- . Status: completed
- Total Time: 00:01:20
- Inter-quartile range
- ■ Status: completed
- Total Time: 00:01:21
- Review of summarising data
- ■ Status: completed
- Total Time: 00:01:20

Til Diploma-in-Statistics: Types of Graphs
First access: Sunday, 14 August 2011, 06:05 PM (1 h 57 m)
Last access: Sunday, 14 August 2011, 06:07 PM (1 h 56 m)
Report:

- Types of Graphs
-     - Types of Graphs
- $\quad$ Types of Graphs
- ■ Status: completed
- Total Time: 00:00:10
- Ice cream pictograph
- ■ Status: completed
- Total Time: 00:00:09
- Column and bar graphs

■ ■ Status: completed

- Total Time: 00:00:18
- Examples of column graphs

■ ■ Status: completed

- Total Time: 00:00:19
- Pie charts
- ■ Status: completed
- Total Time: 00:00:30
- Examples of pie charts

■ $\quad$ Status: completed

- Total Time: 00:00:31
- Line graphs
- ■ Status: completed

■ Total Time: 00:00:35

- Temperature line graphs

■ ■ Status: completed

- Total Time: 00:00:09
- Types of graphs
-     - Status: completed
- Total Time: 00:00:17
- Interpreting column graphs
- ■ Status: completed
- Total Time: 00:00:16
- Manchester flights bar graph

■ ■ Status: completed

- Total Time: 00:00:19
- Movie line graph
- ■ Status: completed
- Total Time: 00:00:22
- Interpretation of a sports pie graph
- ■ Status: completed
- Total Time: 00:00:25
- Review of graphs
- ■ Status: completed

■ Total Time: 00:00:23

Diploma-in-Statistics: Frequency and Graphs
First access: Sunday, 14 August 2011, 06:08 PM (1 h 55 m)
Last access: Sunday, 14 August 2011, 06:09 PM (1 h 54 m)

## Report:

o Frequency and graphs

- $\quad$ Frequency and graphs
-     - Overview of Frequency and graphs
- Status: completed
- Total Time: 00:00:21
- $\downarrow$ Nominal data
- Status: completed
- Total Time: 00:00:22
- Discrete data
- ■ Status: completed
- Total Time: 00:00:27
- Continuous data
- ■ Status: completed
- Total Time: 00:00:24
- Frequency tables with nominal data
- Status: completed
- Total Time: 00:00:22
- Frequency tables with discrete data
-     - Status: completed
- Total Time: 00:00:23
- Frequency tables - discrete data and summary statistics
- Status: completed
- Total Time: 00:00:16
- Mean from frequency tables - discrete data
- $\quad$ Status: completed
- Total Time: 00:00:18
- Interpreting column graphs
-     - Status: completed
- Total Time: 00:00:19
- Family size cumulative frequency
- ■ Status: completed
- Total Time: 00:00:18

Diploma-in-Statistics: Probability
First access: Sunday, 14 August 2011, 06:10 PM (1 h 53 m)
Last access: Sunday, 14 August 2011, 06:10 PM (1 h 53 m)
Report:

- Probability - An Introduction
-     - Probability - An Introduction
-     - Introduction to probability
-     - Status: completed
- Total Time: 00:00:09
- Probability words
- ■ Status: completed
- Total Time: 00:00:07
- $\quad$ Words describing chance
- ■ Status: completed
- Total Time: 00:00:16
- Finding probabilities theoretically
-     - Status: completed
- Total Time: 00:00:19
- Probability with equally likely outcomes
- Status: completed
- Total Time: 00:00:26

Diploma-in-Statistics: Probability and Relative Frequency
First access: Sunday, 14 August 2011, 06:11 PM (1 h 52 m)
Last access: Sunday, 14 August 2011, 06:11 PM (1 h 51 m)
Report:

- Probability and relative frequency
-     - Probability and relative frequency
-     - $\quad$ Probability and relative frequency
- Status: completed
- Total Time: 00:00:25
- Short-run coin tossing
-     - Status: completed
- Total Time: 00:00:23
- Short-run dice rolling
-     - Status: completed
- Total Time: 00:00:36
- $\quad$ Predicting from past experience
- $\quad$ Status: completed
- Total Time: 00:00:39
- Towards probability with coins
-     - Status: completed
- Total Time: 00:00:39
- Towards probability with dice
- Status: completed
- Total Time: 00:00:27
- Probability as long-run relative frequency
- $\quad$ Status: completed
- Total Time: 00:00:03

Diploma-in-Statistics: Probability and Odds
First access: Sunday, 14 August 2011, 06:12 PM (1 h 50 m)
Last access: Sunday, 14 August 2011, 06:13 PM (1 h 50 m)
Report:

- Probability and Odds
-     - Probability and Odds
-     - Probability and Odds
-     - Status: completed
- Total Time: 00:00:10
- Odds
-     - Status: completed
- Total Time: 00:00:20
- Odds on
- Status: completed
- Total Time: 00:00:21
- Odds and probability
-     - Status: completed
- Total Time: 00:00:27
- Fair or unfair?
- . Status: completed
- Total Time: 00:00:32
- Deciding fairness using probability
- $\quad$ Status: completed
- Total Time: 00:00:30
[1] Diploma-in-Statistics: Statistics Assessment 1
First access: Sunday, 14 August 2011, 06:23 PM (1 h 40 m)
Last access: Sunday, 14 August 2011, 06:23 PM (1 h 40 m)
Report:
- Statistics 1 Assessment
-     - Statistics 1 Assessment
-     - Status: passed
- Score: 100\% (PASSED)
- Total Time: 00:09:23

Diploma-in-Statistics: Summary Statistics
First access: Sunday, 14 August 2011, 06:24 PM (1 h 38 m)

Last access: Sunday, 14 August 2011, 06:26 PM (1 h 36 m)
Report:

- Summary statistics
-     - Summary statistics
-     - Summary statistics
- ■ Status: completed
- Total Time: 00:00:17
- The mean
- ■ Status: completed
- Total Time: 00:00:22
- The median - definition
- Status: completed
- Total Time: 00:00:20
- Cumulative frequency
- Status: completed
- Total Time: 00:00:30
- Cumulative frequency graph
- ■ Status: completed
- Total Time: 00:00:26
- The mode
- Status: completed
- Total Time: 00:00:26
- Advantages and disadvantages of the mean
- $\quad$ Status: completed
- Total Time: 00:00:30
- The median for even data sets
- Status: completed
- Total Time: 00:00:11
- Advantages and disadvantages of the median
- ■ Status: completed
- Total Time: 00:00:19
- The mean - example
- ■ Status: completed
- Total Time: 00:00:23
- The median - example
-     - Status: completed
- Total Time: 00:00:17


## Diploma-in-Statistics: Range

First access: Sunday, 14 August 2011, 06:27 PM (1 h 35 m)
Last access: Sunday, 14 August 2011, 06:28 PM (1 h 34 m)
Report:

- Range
- ■ Range
-     - The soccer activity
- ■ Status: completed
- Total Time: 00:00:12
- The range
-     - Status: completed
- Total Time: 00:00:14
- The interquartile range
-     - Status: completed
- Total Time: 00:00:18
- The interquartile range - example 1
- ■ Status: completed
- Total Time: 00:00:20
- The interquartile range - example 2
- ■ Status: completed
- Total Time: 00:00:10
- The standard deviation
-     - Status: completed
- Total Time: 00:00:05
- Boxplots
- Status: completed
- Total Time: 00:00:09
- Boxplots - example
- Status: completed
- Total Time: 00:00:13
- Using your calculator
- ■ Status: completed
- Total Time: 00:00:18

Diploma-in-Statistics: Discrete Random Variables
First access: Sunday, 14 August 2011, 06:29 PM (1 h 33 m)
Last access: Sunday, 14 August 2011, 06:30 PM (1 h 33 m)
Report:

- Discrete random variables
- ■ Discrete random variables
-     - $\quad$ Random variables
- Status: completed
- Total Time: 00:00:20
- Discrete probability distribution
- ■ Status: completed
- Total Time: 00:00:29
- The mean and variance of a discrete random variable
- Status: completed
- Total Time: 00:00:33
- Standard deviation as a measure of spread
- ■ Status: completed
- Total Time: 00:00:37

Diploma-in-Statistics: Univariate Data Part 1
First access: Sunday, 14 August 2011, 07:01 PM (1 h 1 m)
Last access: Sunday, 14 August 2011, 07:01 PM (1 h 1 m)
Report:

- Univariate Data - Part 1
- Univariate Data - Part 1
-     - Introduction
- Status: completed
- Total Time: 00:00:08
- Types of data
- $\quad$ Status: completed
- Total Time: 00:00:12
- Types of univariate data
- ■ Status: completed
- Total Time: 00:00:15
- Numerical data
- $\quad$ Status: completed
- Total Time: 00:00:19

Diploma-in-Statistics: Univariate Data Part 2
First access: Sunday, 14 August 2011, 07:02 PM (1 h )
Last access: Sunday, 14 August 2011, 07:03 PM (1 h )

Report:

- Univariate Data Part 2
- ■ Univariate Data Part 2
-     - Displaying data
-     - Status: completed

■ Total Time: 00:00:19

- Bargraphs

■ ■ Status: completed

- Total Time: 00:00:23
- Stem and leaf diagrams 1
- ■ Status: completed
- Total Time: 00:00:31
- Stem and leaf diagrams 2
- ■ Status: completed

■ Total Time: 00:00:24

Diploma-in-Statistics: Bivariate Data
First access: Sunday, 14 August 2011, 07:03 PM (59 m 37 secs)
Last access: Sunday, 14 August 2011, 07:04 PM (59 m 15 secs)
Report:

- Bivariate data
- ■ Bivariate data
- . Introduction to Bivariate Data
- $\quad$ Status: completed
- Total Time: 00:00:12
- Dependent and independent variables
- ■ Status: completed
- Total Time: 00:00:17
- Percentage tables
- ■ Status: completed

■ Total Time: 00:00:18

- Parallel boxplots

■ ■ Status: completed

- Total Time: 00:00:25
- Back-to-back stemplots
- ■ Status: completed
- Total Time: 00:00:24
- Graphical display of bivariate data
- ■ Status: completed

■ Total Time: 00:00:25

Diploma-in-Statistics: Normal Distribution
First access: Sunday, 14 August 2011, 07:05 PM (58 m 11 secs)
Last access: Sunday, 14 August 2011, 07:06 PM (57 m 27 secs)
Report:
o Normal distribution

- ■ Normal distribution
- ■ The normal curve
- $\quad$ Status: completed

Total Time: 00:00:01

- Continuous random variables and the normal distribution
- $\quad$ Status: completed


## - Total Time: 00:00:09

- Calculation of probabilities for a normal distribution

■ Status: completed

- Total Time: 00:00:19
- Approximating the binomial distribution

■ ■ Status: completed

- Total Time: 00:00:19

Diploma-in-Statistics: Binomial Distribution
First access: Sunday, 14 August 2011, 07:07 PM (56 m 19 secs)
Last access: Sunday, 14 August 2011, 07:07 PM (55 m 51 secs)

## Report:

o Binomial distribution

- ■ Binomial distribution
-     - Binomial probability function
- ■ Status: completed

■ Total Time: 00:00:15

- Number of successes in a given number of trials

■ ■ Status: completed
■ Total Time: 00:00:20

- Effect of changing the parameter $p$
- ■ Status: completed
- Total Time: 00:00:27
- Effect of changing the parameter $n$
- $\quad$ Status: completed
- Total Time: 00:00:32
- Mean and variance of a binomial random variable
- $\quad$ Status: completed

■ Total Time: 00:00:37

Diploma-in-Statistics: Hypergeometric Distribution
First access: Sunday, 14 August 2011, 07:29 PM (33 m 35 secs)
Last access: Sunday, 14 August 2011, 07:30 PM (33 m 7 secs)

## Report:

o Hypergeometric distribution

- ■ Hypergeometric distribution

■ ■ Sampling without replacement

- $\quad$ Status: completed
- Total Time: 00:00:04
- Mean of a hypergeometric random variable

■ ■ Status: completed

- Total Time: 00:00:11
- Variance of a hypergeometric random variable

■ ■ Status: completed

- Total Time: 00:00:11
- Mean and variance of a hypergeometric random variable example 1
- ■ Status: completed
- Total Time: 00:00:13
- Mean and variance of a hypergeometric random variable example 2
- $\quad$ Status: completed
- Total Time: 00:00:16
- Formula for calculating probabilities

■ ■ Status: completed

- Total Time: 00:00:18
- Calculating probabilities
-     - Status: completed
- Total Time: 00:00:15
- Relationship between hypergeometric and binomial distributions

■ Status: completed

- Total Time: 00:00:20
[1] Diploma-in-Statistics: Statistics Assessment 2
First access: Sunday, 14 August 2011, 07:35 PM (27 m 58 secs)
Last access: Sunday, 14 August 2011, 07:35 PM (27 m 58 secs)
Report:
- Statistics 2 Assessment-1
- ■ Statistics 2 Assessment-1

■ ■ Status: passed

- Score: 100\% (PASSED)
- Total Time: 00:04:45

Diploma-in-Statistics: Regression
First access: Sunday, 14 August 2011, 07:36 PM (27 m 25 secs)
Last access: Sunday, 14 August 2011, 07:36 PM (26 m 59 secs)
Report:

- Regression line
- ■ Regression line
-     - Introduction to the regression line
- ■ Status: completed
- Total Time: 00:00:14
- Finding the equation of a regression line
- $\quad$ Status: completed
- Total Time: 00:00:05
- Interpretation of slope and intercept
- ■ Status: completed
- Total Time: 00:00:14
- Practice question

■ ■ Status: completed

- Total Time: 00:00:16
- The three-median regression line
-     - Status: completed
- Total Time: 00:00:18
- Using your calculator
- ■ Status: completed
- Total Time: 00:00:18
- The three-median regression example

■ ■ Status: completed

- Total Time: 00:00:19
- The three-median regression practice questions
- ■ Status: completed
- Total Time: 00:00:24
- The least squares regression line
- $\quad$ Status: completed
- Total Time: 00:00:20
- Making predictions from a regression line
- ■ Status: completed
- Total Time: 00:00:22

Diploma-in-Statistics: Coefficient of Determination
First access: Sunday, 14 August 2011, 07:37 PM (26 m 25 secs)
Last access: Sunday, 14 August $2011,07: 37$ PM (26 m 5 secs)

## Report:

- The coefficient of determination
- ■ The coefficient of determination
-     - Scatterplots
- ■ Status: completed

■ Total Time: 00:00:07

- Scatterplots: using your calculator

■ ■ Status: completed

- Total Time: 00:00:14
- Pearson's product moment correlation coefficient, r
-     - Status: completed
- Total Time: 00:00:15
- Calculating r
- ■ Status: completed
- Total Time: 00:00:20
- The coefficient of determination
- ■ Status: completed

■ Total Time: 00:00:19

- Practice question

■ ■ Status: completed

- Total Time: 00:00:20
- Strength of association
- ■ Status: completed
- Total Time: 00:00:23

Diploma-in-Statistics: Non-linear Data
First access: Sunday, 14 August 2011, 07:38 PM (25 m 23 secs)
Last access: Sunday, 14 August 2011, 07:38 PM (25 m 11 secs)

## Report:

o Non-linear data

- $\quad$ Non-linear data
- $\quad$ Non-linear data

■ ■ Status: completed

- Total Time: 00:00:08
- Square transformation
- ■ Status: completed
- Total Time: 00:00:11
- Log transformations

■ ■ Status: completed

- Total Time: 00:00:14
- Reciprocal transformation

■ ■ Status: completed

- Total Time: 00:00:16
- Example 1
- ■ Status: completed
- Total Time: 00:00:16
- Example 2

■ - Status: completed
■ Total Time: 00:00:19

Diploma-in-Statistics: Trend A nalysis
First access: Sunday, 14 August 2011, 07:39 PM (24 m 16 secs)
Last access: Sunday, 14 August 2011, 07:39 PM (23 m 40 secs)
Report:

- Trends

Trends

-     - Trends
- Status: completed
- Total Time: 00:00:28
- Cyclic patterns
- . Status: completed
- Total Time: 00:00:36
- $\quad$ Random patterns
- $\quad$ Status: completed
- Total Time: 00:00:42
- Describing patterns in time series data
- ■ Status: completed
- Total Time: 00:00:46
- Seasonal patterns
-     - Status: completed
- Total Time: 00:00:49
- Smoothing a time series
- $\quad$ Status: completed
- Total Time: 00:00:43
- Median smoothing
- $\quad$ Status: completed
- Total Time: 00:00:45
- Smoothing using moving averages
- $\quad$ Status: completed
- Total Time: 00:00:28
- Smoothing - example 1
- Status: completed
- Total Time: 00:00:27
- Smoothing - example 2
- $\quad$ Status: completed
- Total Time: 00:00:27
(1) Diploma-in-Statistics: Residual A nalysis

First access: Sunday, 14 August 2011, 07:40 PM (22 m 59 secs)
Last access: Sunday, 14 August 2011, 07:40 PM (22 m 47 secs)
Report:

- Residual analysis
- . Residual analysis
-     - Introduction to Residual Analysis
-     - Status: completed
- Total Time: 00:00:10
- Residual analysis - part 1
- ■ Status: completed
- Total Time: 00:00:16
- $\quad$ Plotting the residuals
- ■ Status: completed
- Total Time: 00:00:16
- Residual analysis - part 2
- Status: completed
- Total Time: 00:00:23
- Residual analysis - part 3
-     - Status: completed
- Total Time: 00:00:24

Diploma-in-Statistics: Calculating a Seasonal Index
First access: Sunday, 14 August 2011, 07:41 PM (22 m 10 secs)
Last access: Sunday, 14 August 2011, 07:41 PM (21 m 53 secs)


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- Thare Machi Education
- Walkgrove
- West Lothian College
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