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#### **Diploma in Statistics Checklist**

#### **Diploma in Statistics**

#### **Progress Indicator**

Name: Yann GEFFROTIN Progress: 100.00% 0% 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:

- O Collecting and analysing data
- Collecting and analysing data
  - Summarising data overview
    - Status: completed
    - Total Time: 00:01:03
    - ✓ Mode
    - Status: completed
      - Total Time: 00:01:16
    - ✓ Mean
    - Status: completed
      - Total Time: 00:01:18
    - Median
    - Status: completed
      - Total Time: 00:01:20
    - ✔ Mode, mean, median
    - 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

# 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: O Types of Graphs ■ Types of Graphs ■ ✓ 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 ■ 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 ■ Frequency and graphs

Overview of Frequency and graphs

- Status: completed ■ Total Time: 00:00:21
- ✓ 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
- 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:

- O 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
    - ✓ 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:

O Probability and relative frequency

```
    Probability and relative frequency
    Probability and relative frequency
    Status: completed
    Total Time: 00:00:25
```

Status: completedTotal Time: 00:00:23Short-run dice rolling

✓ Short-run coin tossing

Status: completedTotal Time: 00:00:36

■ ✓ Predicting from past experience

Status: completed
 Total Time: 00:00:39
 Towards probability with coins

Status: completedTotal Time: 00:00:39

■ ✓ Towards probability with dice

Status: completedTotal Time: 00:00:27

■ ✓ Probability as long-run relative frequency

Status: completedTotal 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:

- O Probability and Odds
- o Probability and Odds

■ ■ ✓ Probability and Odds

Status: completedTotal Time: 00:00:10

■ ✓ Odds

Status: completedTotal Time: 00:00:20

Odds on

Status: completed
 Total Time: 00:00:21
 Odds and probability

Status: completedTotal Time: 00:00:27

■ ✓ Fair or unfair?

Status: completedTotal Time: 00:00:32

■ ✓ Deciding fairness using probability

Status: completedTotal Time: 00:00:30

#### 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:

- o Statistics 1 Assessment
- O 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:
       O 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

                       ■ 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:
       O 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:
       O Discrete random variables
             ■ Discrete random variables

✓ 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:
       O Univariate Data - Part 1
             ■ Univariate Data - Part 1

✓ Introduction

                       ■ Status: completed
                       ■ Total Time: 00:00:08
                      Types of data
                       ■ Status: completed
                       ■ Total Time: 00:00:12
```

Types of univariate data

Status: completed
Total Time: 00:00:15
Numerical data

Status: completedTotal 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:
       O Univariate Data Part 2
             ■ Univariate Data Part 2
                  Displaying data
                       ■ Status: completed
                       ■ Total Time: 00:00:19

✓ Bar graphs

                       ■ 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:
       O Bivariate data
             ■ Bivariate data
                  ■ ✓ Introduction to Bivariate Data
                       ■ 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

                       ■ Status: completed
                       ■ Total Time: 00:00:01
                    Continuous random variables and the normal distribution
```

Status: completedTotal Time: 00:00:09

■ ✓ Calculation of probabilities for a normal distribution

Status: completedTotal 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
- O Binomial distribution
  - ■ ✓ Binomial probability function

Status: completedTotal Time: 00:00:15

■ ✓ Number of successes in a given number of trials

Status: completedTotal Time: 00:00:20

■ ✓ Effect of changing the parameter p

Status: completedTotal Time: 00:00:27

■ ✓ Effect of changing the parameter n

Status: completedTotal Time: 00:00:32

■ ✓ Mean and variance of a binomial random variable

Status: completedTotal 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
- o Hypergeometric distribution
  - ✓ Sampling without replacement

Status: completedTotal Time: 00:00:04

Mean of a hypergeometric random variable

Status: completedTotal Time: 00:00:11

■ Variance of a hypergeometric random variable

Status: completedTotal 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

Status: completedTotal 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 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: O Regression line ■ Regression line ✓ Introduction to the regression line ■ Status: completed ■ Total Time: 00:00:14 ✓ Finding the equation of a regression line ■ 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: completedTotal Time: 00:00:18Using your calculator

Status: completedTotal Time: 00:00:18

The three-median regression example

Status: completedTotal Time: 00:00:19

The three-median regression practice questions

Status: completedTotal Time: 00:00:24

The least squares regression line

Status: completedTotal Time: 00:00:20

Making predictions from a regression line

Status: completedTotal 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
- - ✓ Scatterplots
    - Status: completedTotal Time: 00:00:07
      - Scatterplots: using your calculator
    - Status: completedTotal Time: 00:00:14
    - ✓ Pearson's product moment correlation coefficient, r
    - Status: completedTotal Time: 00:00:15
    - ✓ Calculating r
    - Status: completedTotal Time: 00:00:20
    - ✓ The coefficient of determination
    - Status: completedTotal Time: 00:00:19
    - ✓ Practice question
    - Status: completedTotal Time: 00:00:20Strength of association
    - Status: completedTotal 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
- o Non-linear data
  - ■ ✓ 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: completedTotal Time: 00:00:19

### Diploma-in-Statistics: Trend Analysis

- 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:

o Trends

```
o ■ Trends
```

■ ✓ Trends

Status: completedTotal Time: 00:00:28

■ ✓ Cyclic patterns

Status: completedTotal Time: 00:00:36Random patterns

Status: completedTotal Time: 00:00:42

Describing patterns in time series data

Status: completedTotal Time: 00:00:46Seasonal patterns

Status: completed
 Total Time: 00:00:49
 Smoothing a time series

■ Status: completed
■ Total Time: 00:00:43
■ Median smoothing

Status: completedTotal Time: 00:00:45

■ ✓ Smoothing using moving averages

Status: completedTotal Time: 00:00:28Smoothing - example 1

Status: completedTotal Time: 00:00:27Smoothing - example 2

Status: completedTotal Time: 00:00:27

# Diploma-in-Statistics: Residual Analysis

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:

O Residual analysis

○ Residual analysis

Introduction to Residual Analysis

Status: completed
 Total Time: 00:00:10
 Residual analysis - part 1

Status: completedTotal Time: 00:00:16

■ ✓ Plotting the residuals

Status: completed
 Total Time: 00:00:16
 Residual analysis - part 2

Status: completedTotal Time: 00:00:23

✓ Residual analysis - part 3

Status: completedTotal 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)

### Report:

- O Calculating a seasonal index
- Calculating a seasonal index
  - ✓ Calculating a seasonal index
    - Status: completed
    - Total Time: 00:00:05 ✓ Interpreting seasonal indices
    - Status: completed
    - Total Time: 00:00:09 Seasonal movements
    - Status: completed
      - Total Time: 00:00:17
    - Deseasonalising the data
    - Status: completed
      - **Total Time:** 00:00:16
    - Deseasonalising the data example
    - Status: completed ■ Total Time: 00:00:19
- Diploma-in-Statistics: Statistics Assessment 3
  - First access: Sunday, 14 August 2011, 07:46 PM (16 m 49 secs)
  - Last access: Sunday, 14 August 2011, 07:46 PM (16 m 49 secs)

#### Report:

- 0 Statistics 3 Assessment-1
- - Status: passed
    - Score: 100% (PASSED)
- Diploma-in-Statistics: End of course Assessment
  - First access: Sunday, 14 August 2011, 09:53 AM (10 h 10 m)
  - Last access: Sunday, 14 August 2011, 09:53 AM (10 h 10 m)

# Report:

- 0 End of Course Assessment
- M End of Course Assessment
  - Status: passed
    - Score: 83% (PASSED)
    - Total Time: 00:19:09

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