
Quality Trainer

E-Learning for Statistics

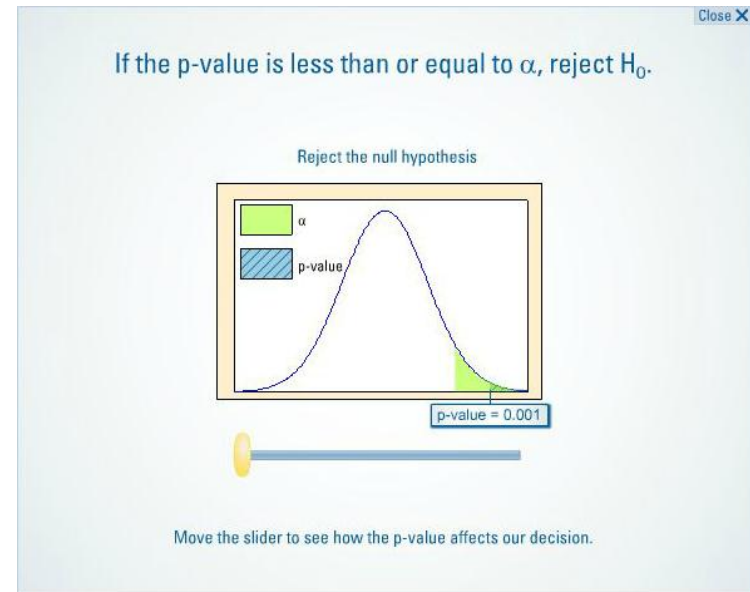
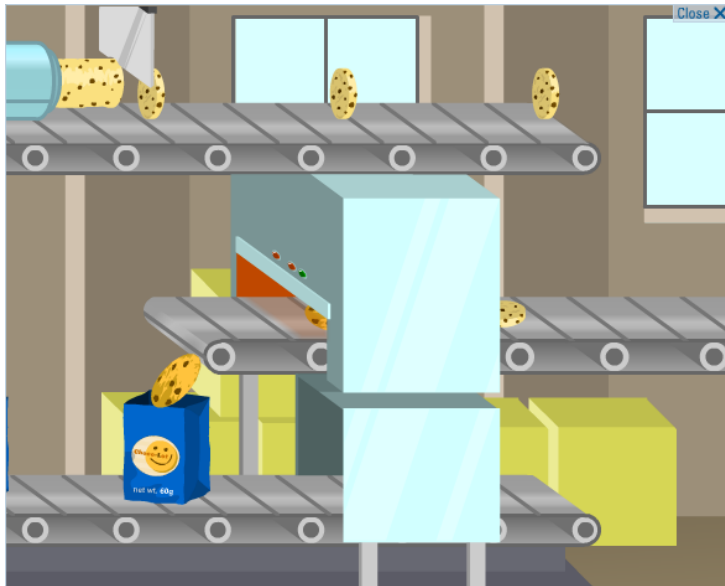


Quality Trainer の概要

- ▶ E-learning コース
- ▶ 統計のトレーニング
- ▶ Minitab Inc. の提供するサービス

統計のトレーニング

- ▶ アニメーションにより問題の背景や統計の概念が説明されます。
- ▶ 難しい統計理論も手早く理解することができます。



Minitab Inc. の提供するサービス

- ▶ Minitab 社は、品質改善と統計教育に関するソフトウェアとサービスを世界中に提供しています
- ▶ これらのサービスは、40年以上の間、100カ国以上の数千社の企業と、4,000校以上の大学・教育機関に採用されています
- ▶ ホームページ : www.minitab.com



Minitab Inc. 本社

アメリカ
ペンシルベニア州
ステートカレッジ

Quality Trainer の構成

- ▶ Chapters – Sections – Activitiesの3段構成
- ▶ 習得度を確認めるQuiz
- ▶ 統計解析ソフトMinitabを使った演習
- ▶ Help リソース

Chapters – Sections – Activitiesの3段階構成

- ▶ Quality Trainer のコンテンツは、3段階で整理されています
- ▶ Activity を選択すると、レッスンを開始します

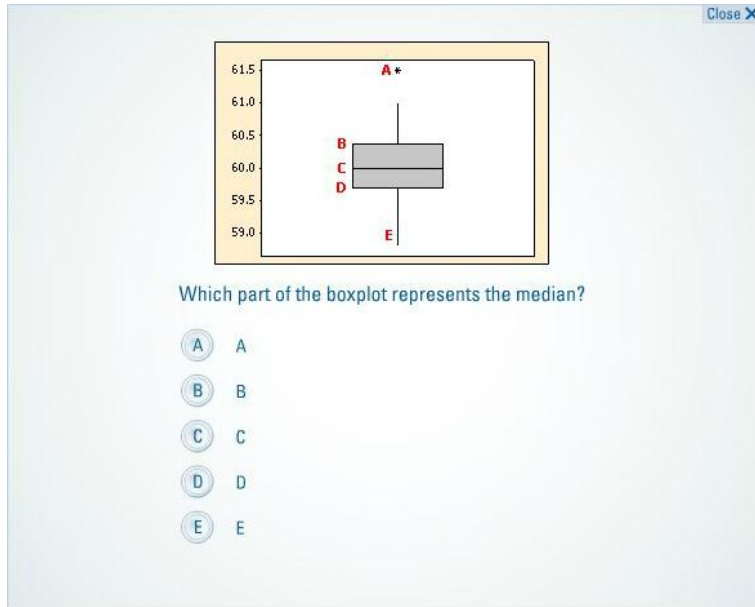
CHAPTER	SECTION	ACTIVITY Close X
Chapter 1: Descriptive Statistics and Graphical Analysis	1.1 Introduction	✓ 1.4.1 Basic Concepts of Descriptive Statistics 
Chapter 2: Statistical Inference	1.2 Types of Data	1.4.2 Mean and Median
Chapter 3: Hypothesis Tests and Confidence Intervals	1.3 Using Graphs to Analyze Data	1.4.3 Range, Variance, and Standard Deviation
Chapter 4: Control Charts	1.4 Using Statistics to Analyze Data	1.4.4 Quiz: Using Statistics to Analyze Data
Chapter 5: Process Capability	1.5 Summary	1.4.5 Minitab Tools: Display Descriptive Statistics
Chapter 6: Analysis of Variance (ANOVA)		1.4.6 Exercise: Descriptive Statistics
Chapter 7: Correlation and Regression		
Chapter 8: Measurement Systems Analysis		
Chapter 9: Design of Experiments		

※ Chapter 一覽

- ▶ 記述統計とグラフ分析
- ▶ 統計的推測
- ▶ 仮説検定と信頼区間
- ▶ 管理図
- ▶ 工程能力分析
- ▶ 分散分析
- ▶ 相関と回帰
- ▶ 測定システム分析
- ▶ 実験計画法

習得度を確かめるQuiz

- ▶ 複数選択式のクイズと答え合わせが、レッスンで提供される統計概念への理解を深めます



Close X

H_0 H_1

Drag the correct statements to define the null and alternative hypotheses.

Mean difference in elasticity between HydroxiClear and Blue Lagoon < 0

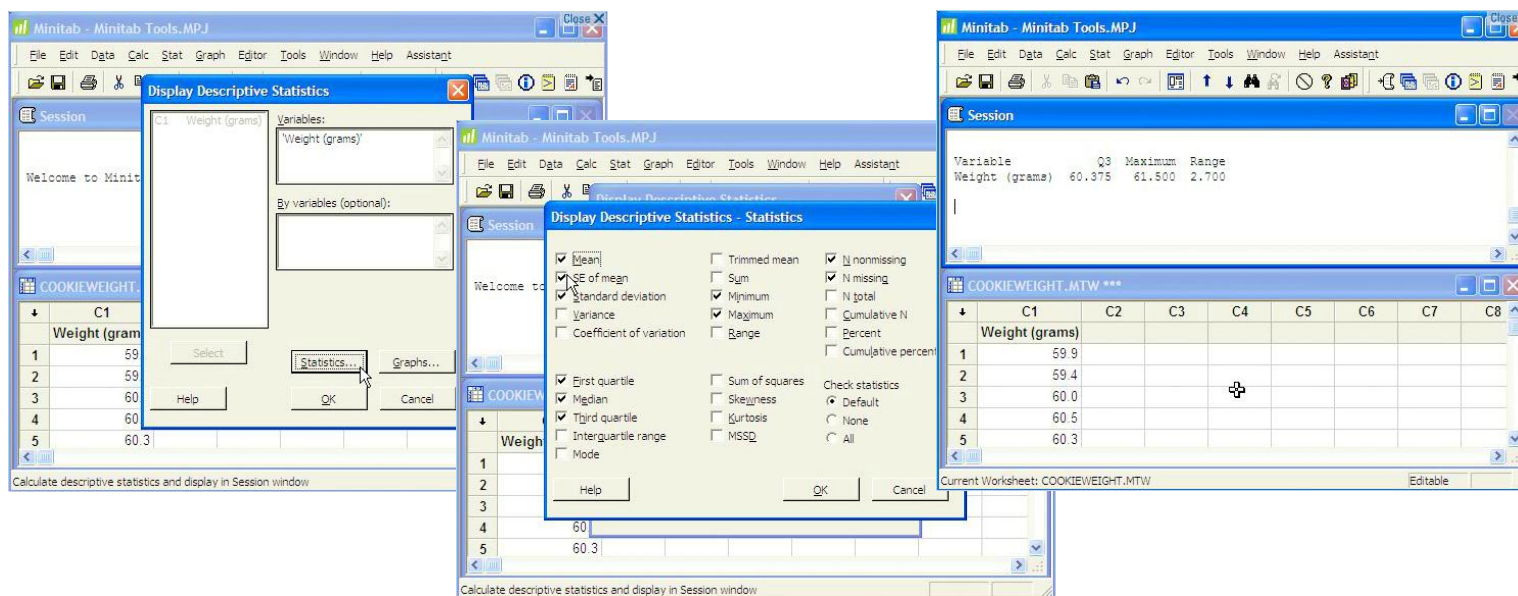
Mean elasticity of HydroxiClear = Mean elasticity of Blue Lagoon

Mean difference in elasticity between HydroxiClear and Blue Lagoon is $\neq 0$

Submit

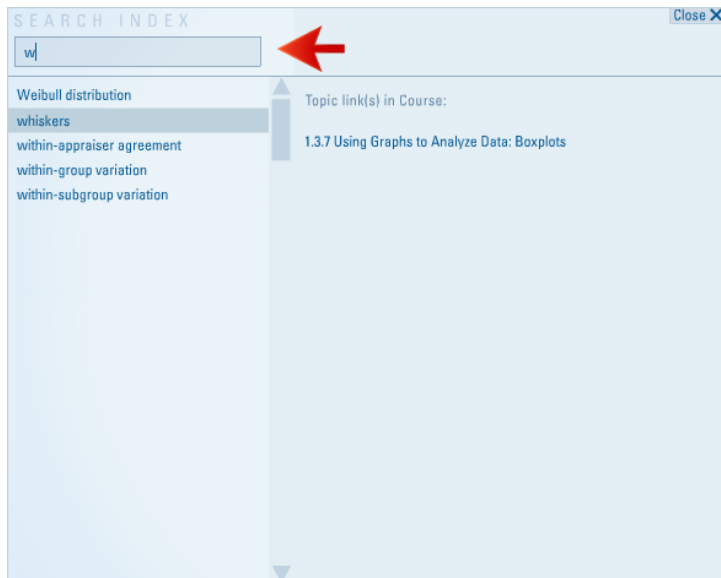
統計解析ソフトMinitabを使った演習

- ▶ 学習した統計概念は、統計解析ソフトMinitab で実施し、ツールとしての使い方を習得することができます
- ▶ ソフトの操作フローが段階的に示された後、自身の手で操作します

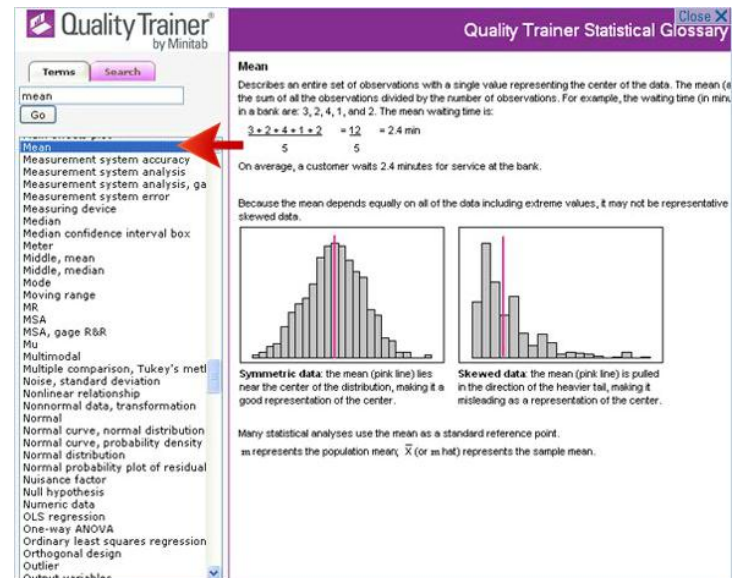


Help リソース Index と Glossary

- ▶ Index では、コンテンツとキーワードを相互参照できます
- ▶ Glossary では、統計用語の定義を調べることができます



▲ Index



▲ Glossary

進捗のトレース

- ▶ 管理者は、オンライン上で受講者の進捗を管理することもできます

Minitab Software for Quality Improvement. United States - English

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Assign Group Filter: Show All

	Name	Group	Start/End	% Comp.	Avg. Quiz Score	Actions
<input type="checkbox"/>	Parete, Michelle	Training Wave A	16 Apr 08 - 31 May 11	2%	100%	Launch Progress Report
<input type="checkbox"/>	Costlow, Dave	Unassigned	03 Jun 10 - 31 May 11	18%	99%	Progress Report Remove
<input type="checkbox"/>	Ozarski, Jeff	Training Wave C	15 Aug 10 - 31 May 11	100%	90%	Certificate Progress Report Remove

Need Assistance?

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Status: Not completed.

Activities Completed: **225/255**

Average Quiz Score: **85%** (Average does not include uncompleted quizzes.)

[Expand all](#)

[Collapse all](#)



Chapter 1: Descriptive Statistics and Graphical Analysis

Activities Completed: **4/28** Average quiz score: **85%**



Chapter 2: Statistical Inference

Activities Completed: **15/15** Average quiz score: **71%**



Chapter 3: Hypothesis Tests and Confidence Intervals

Activities Completed: **47/53** Average quiz score: **95%**



Chapter 4: Control Charts

Activities Completed: **24/24** Average quiz score: **72%**



Chapter 5: Process Capability

Activities Completed: **27/27** Average quiz score: **100%**



Chapter 6: Analysis of Variance (ANOVA)

Activities Completed: **20/20** Average quiz score: **69%**



Chapter 7: Correlation and Regression

Activities Completed: **16/16** Average quiz score: **100%**



Chapter 8: Measurement Systems Analysis

Activities Completed: **44/44** Average quiz score: **79%**



Chapter 9: Design of Experiments

Activities Completed: **28/28** Average quiz score: **92%**

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Have Suggestions?

We would like to hear them.

[Quality Trainer Feedback](#)

Status: Not Completed.

Activities Completed: **13/255**

Average Quiz Score: **75%** (Average does not include uncompleted quizzes.)

[Expand all](#) | [Collapse all](#)

[-] Chapter 1: Descriptive Statistics and Graphical Analysis

Activities Completed: **4/28** Average quiz score: **100%**

1.1 Introduction

✓ 1.1.1 Learning Objectives

1.2 Types of Data

✓ 1.2.1 Basic Concepts

✓ 1.2.2 Data Types

✓ 1.2.3 Quiz Score: **100%** [Details](#)

1.3 Using Graphs to Analyze Data

1.3.1 Basic Concepts

1.3.2 Bar Charts and Pareto Charts

1.3.3 Pie Charts

1.3.4 Histograms

進捗のトレース

Instructor-Led [+]

E-Learning

- Tour
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- Pricing
- Subscription Agreement
- Launch Quality Trainer**

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Have Suggestions?

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[Quality Trainer Feedback](#)

Quiz Detail

5.2.4 Quiz: Process Capability for Normal Data

User: Michelle Paret
Score: 8/10 Correct = 80%
The user's responses are checked below. **X** = an incorrect answer.

[Back](#)

- A process with very low capability is one that:
 - Does not produce enough parts or services.
 - Produces many parts or services that do not meet specifications. **(Correct)**
 - Has control charts with overly wide control limits.
 - Has overly wide specification limits.
- Which of the following processes is most capable?
 - A **(Correct)**
 - B
 - D
- True or false: A process that is in statistical control also meets specifications.
 - True. Statistical control implies a capable process.
 - False. Statistical control does not imply a capable process. **(Correct)**
 - True. A process that is in statistical control is usually capable of meeting process specifications.
 - False. A process that is in statistical control is usually not capable of meeting process specifications.
- X** 4. Which of these processes exhibits low capability because of excessive variability in the process data?
 - A
 - B **(Correct)**
 - D
5. Which of the following is not true of specification limits?

修了証

CERTIFICATE OF COMPLETION

This is to certify that

Thomas Reed

has successfully completed

Quality Trainer by Minitab

a 20-hour online training program

22 October 2010



ライセンス形態

- ▶ シングルユーザーライセンス
 - 1ユーザー1ライセンス
- ▶ マルチユーザーライセンス
 - 複数名利用可能
 - 契約ライセンス数まで同時使用可能
 - 統計解析ソフトMinitab とセット

最後に

▶ 便利で使いやすい

▶ 理解しやすい

▶ いつでも使える

▶ 知識と実用を促進するツール



▲ 満足度調査結果

最後に

- ▶ 便利で使いやすい
- ▶ 理解しやすい
- ▶ いつでも使える
- ▶ 知識と実用を促進するツール



▲ おすすめ度調査結果

お問い合わせ先

株式会社 構造計画研究所
Minitab スタッフ

E-mail: minitab@kke.co.jp

Tel: 03-5342-1025