

## Enhancements

- New questions were added to the lesson on finding  $z$ -values using the normal distribution. This lesson is titled "6.4 Find the Value of  $z$ " in Classic Statistics, "8.4b  $z$  - Transformations" in *Discovering Statistics*, and "6.4 Finding  $z$  Values Using the Normal Curve" in *Beginning Statistics*.
- New questions were added to the introductory lesson on finding confidence intervals for population means. This lesson is titled "8.2 Introduction to Estimating Population Means" in Classic Statistics, "10.1 - 10.3 Introduction to Estimating Means" in *Discovering Statistics*, and "8.1 Introduction to Estimating Population Means" in *Beginning Statistics*.
- More than 180 new questions were added for WebTest in the "Beginning Statistics" Plugin.
- Instruct screens were updated throughout the lesson on using  $P$ -values in hypothesis tests for population proportions. This lesson is titled "9.2 Hypothesis Testing Proportions: P Value" in Classic Statistics, "12.1a Hypothesis Testing Proportions (P Value)" in *Discovering Statistics*, and "10.4 Hypothesis Testing for Population Proportions" in *Beginning Statistics*.
- Instruct screens were updated throughout the lesson on using  $P$ -values in hypothesis tests for population means. This lesson is titled "9.4 Hypothesis Testing Means: P Value" in Classic Statistics, "11.4a Hypothesis Testing Means (P Value)" in *Discovering Statistics*, and "10.3 Hypothesis Testing for Means (Large Samples)" in *Beginning Statistics*.
- Instruct screen 9 was updated in the lesson on finding confidence intervals for population proportions. This lesson is titled "8.1 Estimating Proportions" in Classic Statistics, "10.7 - 10.9 Estimation (Proportions)" in *Discovering Statistics*, and "8.4 Estimating Population Proportions" in *Beginning Statistics*.
- The Solution and Step By Step screens were updated for Problem Types 24, 25, and 26 in the lesson on finding expected values for discrete random variables. This lesson is titled "5.1 Discrete Random Variables" in Classic Statistics, "7.1 - 7.4 Discrete Random Variables" in *Discovering Statistics*, and "5.1 Expected Value" in *Beginning Statistics*.
- The Standard Normal Tables were expanded to include  $z$ -values in the intervals  $[-3.49, -3.10]$  and  $[3.10, 3.49]$ .
- The Instruct screens and questions were updated in the lessons on hypothesis testing and confidence intervals for population means regarding when to use the normal distribution and when to use the Student  $t$ -distributions.

## New Questions

### Find the Value of $z$

- Given the mean and standard deviation of some normally distributed data, find:
  - a. The minimum data value that lies in the top  $r\%$  of the data for a given percentage  $n$ .
  - b. The two data values that separate the top  $r\%$  and the bottom  $r\%$  for a given percentage  $n$ .
  - c. The two data values that separate the top  $r\%$  and the bottom  $k\%$  for given percentages  $n$  and  $k$ .
- Given the mean of some normally distributed test scores and given the percentage of scores that are above some given test score, find the standard deviation.

### Introduction to Estimating Population Means

- Calculate the margin of error for a given confidence interval.
- Calculate the sample mean for a given confidence interval.

## Multimedia

- Audio has been updated for all tables of contents.

# General Changes

- Added new product specific icons that utilize the company logo.
- Improved Edit Course ID Window to assist user in entering the correct course ID:
  - Replaced “Course ID” with “Hawkes Course ID” in all places to help distinguish from a school’s course id.
  - Added a link “Find my Hawkes Course ID” that takes the user to our webpage where they can look up their course ID by school.
  - Added custom check and message for each of the following common issues: i) user is not connected to the internet, ii) user has entered a license number, iii) user has entered an access code.
  - Added a Help link that opens the pdf HLS Internet Access for additional guidance.
  - Added on screen message indicating Hawkes Course ID will not contain numbers or spaces
  - Added a check box option for “Always Work Offline”
- Statistics ONLY: Added “Never Ask Again” check box option to warning that client Table of Contents does not match server Table of Contents.
- Hot words windows are now movable.
- Added title bar with close button to how word windows.
- “Product Tour” renamed “Video Tour” to be clearer.
- Added keyboard short cuts:
  - ) enters () in text box (This is in addition to existing keyboard short cut of (.)
  - ] enters [] in text box (This is in addition to existing keyboard shortcut of [.]
  - } enters {} in text box (This is in addition to existing keyboard short cut of {.)
  - Ctrl+( enters (] in text box
  - Ctrl+) enters ]) in text box
  - Ctrl+[ enters [) in text box
  - Ctrl+] enters ]) in text box
- Online grade book link compatible with browsers other than Internet Explorer.
- Statistics ONLY – If change Table of contents, Table of Contents name updates in courseware title and title bar of Instructor menu without having to exit and reenter software.
- Introductory and Intermediate Algebra student courseware link and Online Grade link no longer touch at resolution 1600 x 900 on Instructor menu.
- Statistics Only – Added warning if client table of contents and server table of contents do not match when click on Lesson Editor and WebTest links on Instructor menu.