

Understanding Basic Statistics, Pupil Edition

The Pupil Edition is intended for a half-year/one-semester introductory course in statistics. It does not assume any prior background in statistics, but students are expected to have successfully completed Algebra 2. The program is thorough, accessible, and consistently demonstrates the real-world applications of the concepts being studied.

Teacher Edition		
Essential Items		
Ancillary Items		
Free with Purchase items		
9780618632299	Understanding Basic Statistics Student Solutions Manual	\$27.57
Upon request, one per student edition purchased, Initial year of purchase.		
9780618641932	Understanding Basic Statistics StatSpace Student CD-ROM	\$5.97
Upon request, one per student edition purchased, Initial year of purchase.		
9780618641949	HM ClassPrep CD-ROM with HM Testing	\$99.87
Upon request, one per teacher, year of purchase.		
9780618641987	Understanding Basic Statistics DVD Program (lecture videos)	\$32.37
Upon request, one per teacher, year of purchase.		
9780618641994	Understanding Basic Statistics Technology Guide	\$25.17
Upon request, one per student edition purchased, Initial year of purchase.		
9780618726615	Understanding Basic Statistics, Statistics Formulas Reference Card	
Upon request, one per student edition purchased, Initial year of purchase.		
Understanding Basic Statistics ©2007		

ISBN
9780618632282

Contract Price
\$79.77

Grade
10,11,12

TYPE
P1

Copyright
2007

Author
Brase, et al.

Edition
4th

Content
Statistics

Readability
9.7 Dale Chall Score

Accessibility
Nimas MathML

Research
Contact sales representative for assistance

Provided by the Publisher	ISBN 9780618632282		Publisher - Holt McDougal, A Division of Houghton Mifflin Harcourt Publishing Company	
	Understanding Basic Statistics, Pupil Edition			
	Type - P1	Author - Brase, et al.		
	Copyright - 2007	Edition - 4th	Readability -	9.7 Dale Chall Score
	Course - Statistics		Grade(s) -	10,11,12
	Teacher Edition ISBN if applicable			

Overall Recommendation:	Recommended as BASAL
Overall Strengths, Weaknesses, Comments:	if this box is not checked, the evaluators have chosen NOT recommend as basal
<p>This text contains all of the content for Statistics and Probability. The text is written on an upper reading level and would not be appropriate for younger students. There is not a teacher edition included or even available. There are extensive technology connections, interesting examples, and detailed explanations.</p>	

- NIMAC Accessibility NML
- Ancillary Yes
- Free with Purchase Yes
- Research Yes Contact sales representative for assistance

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CRITERIA

This basal resource ...

A. Encompasses KY Content Standards & Grade Level Expectations Strong Evidence

Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 5 Big Ideas of mathematics to the following extent:	
a) Number Properties and Operations	Not Applicable
b) Measurement	Not Applicable
c) Geometry	Not Applicable
d) Data Analysis and Probability	Strong Evidence
e) Algebraic Thinking	Not Applicable
2) Addresses content-specific enduring understandings from the related Program of Studies standards.	Strong Evidence
3) Addresses content-specific skills and concepts from the related	Strong Evidence

Program of Studies standards.

4) Content addressed is current, relevant and non-trivial Strong Evidence

5) Provides opportunities for critical thinking/reasoning Strong Evidence

6) Strengths, Weaknesses, Comments:

- Specific strengths-which areas/concepts are covered exceptionally well?
- Specific weaknesses-which areas/concepts would likely require supplementing?

Writing projects and group projects are available at the end of each chapter giving the students opportunities to work together and think critically.

B. Functionality & Suitability

Moderate Evidence

1) Suitability

Moderate Evidence

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

2) Content quality

Strong Evidence

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community
- Interconnections among mathematical topics

3) Connections to Literacy

Moderate Evidence

- Employs a variety of reading levels and is grade/level appropriate
- Use of multiple representations-concrete, visual/spatial, graphs, charts, etc.
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- The text is engaging and facilitates learning
- Embedded activities enhance the understanding of the text

Note: may apply to either student or teacher editions

4) Connections to Technology

Strong Evidence

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data
- Embeds web links as a mathematics resource.

5) Support for Diverse Learners

Little or No Evidence

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
- Challenge for gifted and talented students
- Support for students with learning difficulties

Note: may apply to either student or teacher editions

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The text is written at an advanced reading level. It would not be appropriate for younger students. There is integration of reading and writing, including group activities. There is no support for differentiated instruction, ESL, or students with learning difficulties. There is no teacher edition. There are technology notes in each section and at the end of the chapter there are detailed instructions for MINITAB, Excel, and graphing calculators.

C. Supports Inquiry and Skill Development

Strong Evidence

1) Promotes Inquiry, research and Application of Learning

Strong Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.

Note: may apply to either teacher or student edition

2) Skill Development

Strong Evidence

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

There are higher-level questions and activities including data gathering for the students. They are asked to reason and extend their knowledge of statistics. The applications have a large

range of real-life applications.

D. Supports Best Practices of Teaching and Learning

Moderate Evidence

1) Engages Students

Moderate Evidence

- Includes content geared to the needs, interests, and abilities of all students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated

Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction

Little or No Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

There is a wide range of activities, but there are not different instruction strategies. There are no assessments included with the text and there is no teacher edition to provide more examples, etc.

E. Has an Organization/ Format that Supports Learning and Teaching

Moderate Evidence

1) Organizational Quality

Moderate Evidence

- Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations.
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual manipulatives) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size

Evaluation Tool for Basal Instructional Materials
Mathematics (2009 – 2015)

- Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text)

Little or No Evidence

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Has detailed explanations on a upper high school reading level. There is no use of included software, but it does include web links and instructions for MINITAB, Excel, and the graphing calculator. There is only a student text; there is not a teacher edition or any other materials.

F. Has available Ancillary/ Gratis Materials

Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F

Moderate Evidence

1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving
- Provides opportunities for intervention.

2) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Included in the extras is a solution manual and a technology guide. This technology guide has extensive instructions for use with MINITAB, SPSS, Excel, and graphing calculators. The student solution manual has step-by-step solutions for all problems. There is a pamphlet with formulas and charts for easy reference. There is also a student resource CD and teacher resource CD.
