

Thinking Quantitatively: Communicating with Numbers (2nd ed.)

Eric Gaze

Table of Contents

Spreadsheet Basics

- A.1 Introduction to Spreadsheets
- A.2 Built-in Functions
- A.3 Charts

Chapter 1: An Excel-lent Approach to Relationships

- 1.1 Functions
- 1.2 Analytic Representations: Equations
- 1.3 Numerical and Graphical Representations: Tables and Charts
- 1.4 Spotlight on Statistics

Chapter 2: Ratios and Proportions

- 2.1 Ratios and Proportions
- 2.2 Weighted Averages
- 2.3 Proportionality
- 2.4 Financial Literacy
- 2.5 Spotlight on Statistics

Chapter 3: Units, Conversions, Scales, and Rates

- 3.1 Units and Conversions
- 3.2 Scales
- 3.3 Rates
- 3.4 Dosages and Concentrations
- 3.5 Spotlight on Statistics

Chapter 4: Percentages

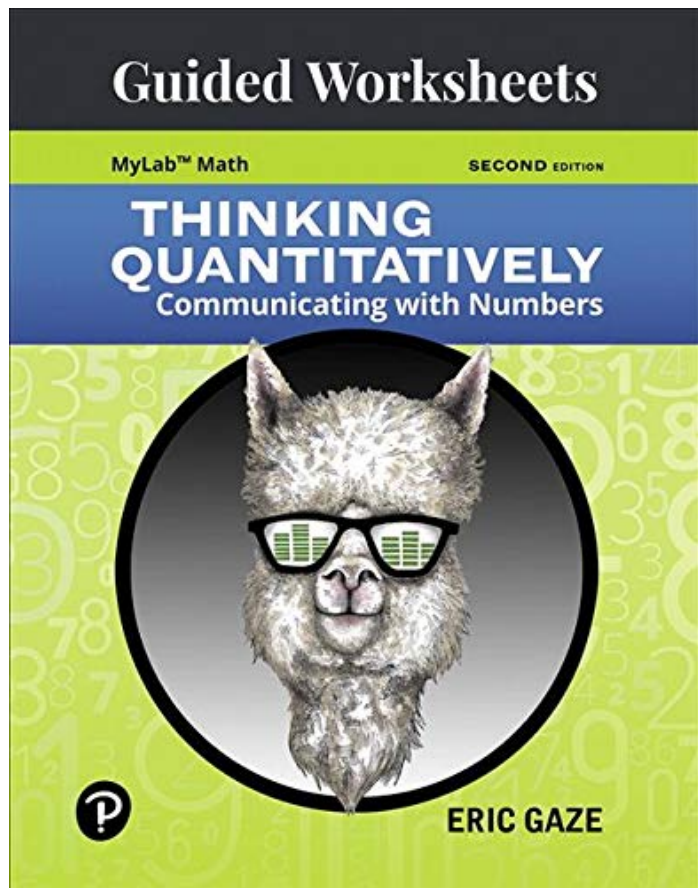
- 4.1 Percentages
- 4.2 Part-to-Whole Ratios
- 4.3 Percent Change and Difference
- 4.4 Data Tables with Percentages
- 4.5 Spotlight on Statistics

Chapter 5: Linear Functions

- 5.1 Proportionality
- 5.2 Slopes and y-intercepts
- 5.3 Linear Equations
- 5.4 Spotlight on Statistics

Chapter 6: Exponential Functions

- 6.1 Constant Percent Change
- 6.2 Exponential Functions
- 6.3 Average Percent Change
- 6.4 Spotlight on Statistics



<https://www.pearson.com/en-us/subject-catalog/p/thinking-quantitatively-communicating-with-numbers/P200000006187>

Table of Contents

Chapter 7: Logical Arithmetic

- 7.1 Logarithms
- 7.2 Doubling Times and Half-Lives
- 7.3 Annual Percentage Yield
- 7.4 Continuous Growth and Euler's Number: e
- 7.5 Spotlight on Statistics

Chapter 8: Curve Fitting and Correlation

- 8.1 Correlation, Causation, and Confounding Factors
- 8.2 Best-Fit, Least-Squares, and Regression Lines
- 8.3 Correlation Coefficient and Coefficient of Linear Determination
- 8.4 Spotlight on Statistics

Chapter 9: Financial Health

- 9.1 Retirement
- 9.2 Securities: Cash, Stocks, Mutual Funds, and Bonds
- 9.3 401(k) Plans
- 9.4 Built-in Financial Functions
- 9.5 Loans

Chapter 10: Logically!

- 10.1 Logical Statements
- 10.2 Excel's IF Function
- 10.3 VLOOKUP
- 10.4 Random Simulations

Chapter 11: Chance, Risk, and Likelihood

- 11.1 Risk and Decision Making
- 11.2 Probability and Counting
- 11.3 Conditional Probabilities
- 11.4 Unions and Complements
- 11.5 Spotlight on Statistics

NEW - Chapter 12: Statistically Speaking

- 12.1 Data Distributions: Frequency and Probability
- 12.2 Binomial and Normal Distributions
- 12.3 Sampling Distributions and Confidence Intervals
- 12.4 Hypothesis Testing

NEW - Chapter 13: Modeling the Real World

- 13.1 Modeling Basics
- 13.2 Rate (Population) Models
- 13.3 Stochastic (Random) Models
- 13.4 Linear Programming (Optimization) Models
- 13.5 Spotlight on Statistics