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that approximates the data. Here
is one possibility: b. $y = 8.5x - 2.5$.
Students might come up with
a simpler model with a y-intercept

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of 0, such as $y = 8x$ (because 0 thickness should suggest 0 breaking weight). c. Answers depend on the equation. Using the preceding equation, the

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Answers | Investigation 5 23. 128
 720 of $360 = 64$ degrees. 24. 238
 1250 of $360 = 69$ degrees
(approx.) 25. a. Doubles the
mean of the scores. The new
mean is $\frac{2}{3}$ of the mean of the
scores. The new mean is 0.2
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Algebra 1: Common Core (15th
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The book encourages the modeling of linear programs and their solutions and uses common computer software programs such as LINDO. In addition to extensive chapters on probability and statistics, principles and applications of matrices are included as well as topics for enrichment such as the Monte Carlo method, game theory, kinship matrices, and dynamic programming. Supplemented with online instructional support materials, the book features coverage including: Algebra Skills Mathematics of Finance Matrix Algebra Geometric Solutions Simplex Methods Application Models Set and Probability Relationships Random Variables

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University of Delaware. Dr.
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This text makes math fun,
approachable, and applicable in

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reality-based examples pulled from the science, engineering, and operations research fields. Prerequisites: ordinary differential equations, continuous probability. Numerous references. Includes 27 black-and-white figures. 1978 edition.

Thirty years ago, biologists could get by with a rudimentary grasp of mathematics and modeling. Not so today. In seeking to answer fundamental questions about how biological systems function and change over time, the modern biologist is as likely to rely on sophisticated mathematical and computer-based models as traditional fieldwork. In this book, Sarah Otto and Troy Day provide biology

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students with the tools necessary to both interpret models and to build their own. The book starts at an elementary level of mathematical modeling, assuming that the reader has had high school mathematics and first-year calculus. Otto and Day then gradually build in depth and complexity, from classic models in ecology and evolution to more intricate class-structured and probabilistic models. The authors provide primers with instructive exercises to introduce readers to the more advanced subjects of linear algebra and probability theory. Through examples, they describe how models have been used to understand such topics as the spread of HIV, chaos, the age structure of a country, speciation,

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and extinction. Ecologists and evolutionary biologists today need enough mathematical training to be able to assess the power and limits of biological models and to develop theories and models themselves. This innovative book will be an indispensable guide to the world of mathematical models for the next generation of biologists. A how-to guide for developing new mathematical models in biology Provides step-by-step recipes for constructing and analyzing models Interesting biological applications Explores classical models in ecology and evolution Questions at the end of every chapter Primers cover important mathematical topics Exercises with answers Appendixes

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summarize useful rules Labs and
advanced material available

This book is a logical, well-organized guide to various mathematical modeling techniques and applications for evaluating and solving problems in the diverse field of mathematics. A highly-qualified lecturer in the area of mathematics education and modeling, the author provides a unique pedagogical approach to using GeoGebra and WolframAlpha in courses that require problem solving and evaluation through mathematical modeling. The main software presented in the book is GeoGebra, which is a fast-growing, free program and can be

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used within numerous areas of mathematics such as algebra, geometry, geometry 3D, functions, statistics, spreadsheet calculations, and symbolic algebra. The book provides detailed information on how to use GeoGebra to teach mathematics, as well as a technical guide to using GeoGebra for mathematical modeling. Beginning with the basics of GeoGebra, the book introduces specific GeoGebra exercises and additional resources for further study. The book then moves on to comprehensive modeling examples that correspond to different levels of mathematics experience. Each chapter builds on the previous chapter's level,

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and includes numerous examples of solved modeling tasks with at least one, sometimes several, solution suggestions. These solutions are detailed both mathematically and in a GeoGebra sense to engage readers with the necessary skills for future problem solving and mathematical modeling. Subsequently, the book addresses how to organize practical work and gives examples of various approaches to teaching modeling in the classroom. Finally, the book illustrates the methods for evaluating models, including relative error, correlation, square sum of errors, regression, and confidence interval.

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