

# Regression Equation - Example

Recall the example involving Copier Sales of America. The sales manager gathered information on the number of sales calls made and the number of copiers sold for a random sample of 10 sales representatives. Use the least squares method to determine a linear equation to express the relationship between the two variables.

What is the expected number of copiers sold by a representative who made 20 calls?

Sales Representative	Number of Sales Calls	Number of Copiers Sold
Tom Keller	20	30
Jeff Hall	40	60
Brian Vrost	20	40
Greg Fish	30	60
Susan Welch	10	30
Carlos Ramirez	10	40
Rich Niles	20	40
Mike Krel	20	50
Mark Reynolds	20	30
Soni Jones	30	70

Step 1 – Find the slope ( $b$ ) of the line

$$b = r \left( \frac{s_y}{s_x} \right) = .759 \left( \frac{14.337}{9.189} \right) = 1.1842$$

Step 2 – Find the  $y$ -intercept ( $a$ )

$$a = \bar{Y} - b\bar{X} = 45 - 1.1842(22) = 18.9476$$

The regression equation is:

$$Y = a + bX$$

$$Y = 18.9476 + 1.1842X$$

$$Y = 18.9476 + 1.1842(20)$$

$$Y = 42.6316$$

# Regression Analysis By Example

**Michael Patrick Allen**



## **Regression Analysis By Example:**

**Regression Analysis by Example** Samprit Chatterjee, Ali S. Hadi, 2006-10-20 The essentials of regression analysis through practical applications Regression analysis is a conceptually simple method for investigating relationships among variables Carrying out a successful application of regression analysis however requires a balance of theoretical results empirical rules and subjective judgement Regression Analysis by Example Fourth Edition has been expanded and thoroughly updated to reflect recent advances in the field The emphasis continues to be on exploratory data analysis rather than statistical theory The book offers in depth treatment of regression diagnostics transformation multicollinearity logistic regression and robust regression This new edition features the following enhancements Chapter 12 Logistic Regression is expanded to reflect the increased use of the logit models in statistical analysis A new chapter entitled Further Topics discusses advanced areas of regression analysis Reorganized expanded and upgraded exercises appear at the end of each chapter A fully integrated Web page provides data sets Numerous graphical displays highlight the significance of visual appeal Regression Analysis by Example Fourth Edition is suitable for anyone with an understanding of elementary statistics Methods of regression analysis are clearly demonstrated and examples containing the types of irregularities commonly encountered in the real world are provided Each example isolates one or two techniques and features detailed discussions of the techniques themselves the required assumptions and the evaluated success of each technique The methods described throughout the book can be carried out with most of the currently available statistical software packages such as the software package R An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

**Regression Analysis By Example Using R** Ali S. Hadi, Samprit Chatterjee, 2023-10-11 Regression Analysis By Example Using R A STRAIGHTFORWARD AND CONCISE DISCUSSION OF THE ESSENTIALS OF REGRESSION ANALYSIS In the newly revised sixth edition of Regression Analysis By Example Using R distinguished statistician Dr Ali S Hadi delivers an expanded and thoroughly updated discussion of exploratory data analysis using regression analysis in R The book provides in depth treatments of regression diagnostics transformation multicollinearity logistic regression and robust regression The author clearly demonstrates effective methods of regression analysis with examples that contain the types of data irregularities commonly encountered in the real world This newest edition also offers a brand new easy to read chapter on the freely available statistical software package R Readers will also find Reorganized expanded and upgraded exercises at the end of each chapter with an emphasis on data analysis Updated data sets and examples throughout the book Complimentary access to a companion website that provides data sets in xlsx csv and txt format Perfect for upper level undergraduate or beginning graduate students in statistics mathematics biostatistics and computer science programs Regression Analysis By Example Using R will also benefit readers who need a reference for quick updates on regression methods and applications

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Hadi,2013-05-30 Praise for the Fourth Edition This book is an excellent source of examples for regression analysis It has been and still is readily readable and understandable Journal of the American Statistical Association Regression analysis is a conceptually simple method for investigating relationships among variables Carrying out a successful application of regression analysis however requires a balance of theoretical results empirical rules and subjective judgment Regression Analysis by Example Fifth Edition has been expanded and thoroughly updated to reflect recent advances in the field The emphasis continues to be on exploratory data analysis rather than statistical theory The book offers in depth treatment of regression diagnostics transformation multicollinearity logistic regression and robust regression The book now includes a new chapter on the detection and correction of multicollinearity while also showcasing the use of the discussed methods on newly added data sets from the fields of engineering medicine and business The Fifth Edition also explores additional topics including Surrogate ridge regression Fitting nonlinear models Errors in variables ANOVA for designed experiments Methods of regression analysis are clearly demonstrated and examples containing the types of irregularities commonly encountered in the real world are provided Each example isolates one or two techniques and features detailed discussions the required assumptions and the evaluated success of each technique Additionally methods described throughout the book can be carried out with most of the currently available statistical software packages such as the software package R Regression Analysis by Example Fifth Edition is suitable for anyone with an understanding of elementary statistics

*Regression Analysis by Example* Samprit Chatterjee, Ali S. Hadi, Bertram Price, 1999-11-29 Regression analysis provides a conceptually simple method for investigating relationships among variables Carrying out a successful application of regression analysis however requires a balance of theoretical results empirical rules and subjective judgement Regression Analysis by Example Third Edition explains the principles underlying exploratory data analysis emphasizing data analysis rather than statistical theory This is not just another edition of the book it is a major rewriting and reorganization of the previous edition The new edition is expanded and updated to reflect recent advances in the field offering in depth treatment of diagnostic plots time series regression multicollinearity and logistic regression Suitable for anyone with an understanding of elementary statistics Regression Analysis by Example Third Edition illustrates methods of regression analysis with examples containing the types of irregularities commonly encountered in the real world Each example isolates one or two techniques and features detailed discussions of the techniques themselves the required assumptions and the evaluated success of each technique Each of the methods described can be carried out with most currently available statistical software packages

**Regression Analysis by Example** Samprit Chatterjee, Bertram Price, 1977-10-19 Simple linear regression Detection and correction of model violations simple linear regression Multiple regression model Qualitative variables as regressors Weighted least squares The problem of correlated errors Analysis of collinear data Biased estimation of regression coefficients Selection of variables in a regression equation

*Understanding Regression Analysis* Michael Patrick Allen, 2004-05-31 By assuming it is possible to

understand regression analysis without fully comprehending all its underlying proofs and theories this introduction to the widely used statistical technique is accessible to readers who may have only a rudimentary knowledge of mathematics Chapters discuss descriptive statistics using vector notation and the components of a simple regression model the logic of sampling distributions and simple hypothesis testing the basic operations of matrix algebra and the properties of the multiple regression model testing compound hypotheses and the application of the regression model to the analyses of variance and covariance and structural equation models and influence statistics

**How to Use Regression Analysis in Quality**

**Control** Douglas C. Crocker, 1990 This book models the regression protocol to suit applications within quality control while avoiding misapplication and misinterpretation It gives an introduction to the general principles of regression analysis and an in depth discussion of its use Contents What RA Is and What It Does The Modeling Process Enlisting Client Support The Method of Least Squares A Numeric Example The Simple One Predictor Model A Calibration Example Inverse Regression The Necessity of Computers Multiple Regression Finding the Causes of Quality Variation A Few More Fallacies and Dangers

*Linear Regression Analysis: Theory And Computing* Xin Yan, Xiaogang Su, 2009-06-05 This volume presents in detail the fundamental theories of linear regression analysis and diagnosis as well as the relevant statistical computing techniques so that readers are able to actually model the data using the methods and techniques described in the book It covers the fundamental theories in linear regression analysis and is extremely useful for future research in this area The examples of regression analysis using the Statistical Application System SAS are also included This book is suitable for graduate students who are either majoring in statistics biostatistics or using linear regression analysis substantially in their subject fields

**Handbook of Regression Analysis** Samprit Chatterjee, Jeffrey S. Simonoff, 2013-05-30 A Comprehensive Account for Data Analysts of the Methods and Applications of Regression Analysis Written by two established experts in the field the purpose of the Handbook of Regression Analysis is to provide a practical one stop reference on regression analysis The focus is on the tools that both practitioners and researchers use in real life It is intended to be a comprehensive collection of the theory methods and applications of regression methods but it has been deliberately written at an accessible level The handbook provides a quick and convenient reference or refresher on ideas and methods that are useful for the effective analysis of data and its resulting interpretations Students can use the book as an introduction to and or summary of key concepts in regression and related course work including linear binary logistic multinomial logistic count and nonlinear regression models Theory underlying the methodology is presented when it advances conceptual understanding and is always supplemented by hands on examples References are supplied for readers wanting more detailed material on the topics discussed in the book R code and data for all of the analyses described in the book are available via an author maintained website I enjoyed the presentation of the Handbook and I would be happy to recommend this nice handy book as a reference to my students The clarity of the writing and proper choices of examples allows the presentations of many

statistical methods shine The quality of the examples at the end of each chapter is a strength They entail explanations of the resulting R outputs and successfully guide readers to interpret them American Statistician *Regression Analysis* Evan James Williams, 1959 **Regression Analysis by Example, 4th Edition** Samprit Chatterjee, Ali Hadi, 2006 The essentials of regression analysis through practical applications Regression analysis is a conceptually simple method for investigating relationships among variables Carrying out a successful application of regression analysis however requires a balance of theoretical results empirical rules and subjective judgement Regression Analysis by Example Fourth Edition has been expanded and thoroughly updated to reflect recent advances in the field The emphasis continues to be on exploratory data analysis rather than statistical theory The book offers in depth treatment of regression diagnostics transformation multicollinearity logistic regression and robust regression This new edition features the following enhancements Chapter 12 Logistic Regression is expanded to reflect the increased use of the logit models in statistical analysis A new chapter entitled Further Topics discusses advanced areas of regression analysis Reorganized expanded and upgraded exercises appear at the end of each chapter A fully integrated Web page provides data sets Numerous graphical displays highlight the significance of visual appeal Regression Analysis by Example Fourth Edition is suitable for anyone with an understanding of elementary statistics Methods of regression analysis are clearly demonstrated and examples containing the types of irregularities commonly encountered in the real world are provided Each example isolates one or two techniques and features detailed discussions of the techniques themselves the required assumptions and the evaluated success of each technique The methods described throughout the book can be carried out with most of the currently available statistical software packages such as the software package R **Regression Analysis and its Application** Richard F. Gunst, Robert L. Mason, 2018-04-27 Regression Analysis and Its Application A Data Oriented Approach answers the need for researchers and students who would like a better understanding of classical regression analysis Useful either as a textbook or as a reference source this book bridges the gap between the purely theoretical coverage of regression analysis and its practical application The book presents regression analysis in the general context of data analysis Using a teach by example format it contains ten major data sets along with several smaller ones to illustrate the common characteristics of regression data and properties of statistics that are employed in regression analysis The book covers model misspecification residual analysis multicollinearity and biased regression estimators It also focuses on data collection model assumptions and the interpretation of parameter estimates Complete with an extensive bibliography Regression Analysis and Its Application is suitable for statisticians graduate and upper level undergraduate students and research scientists in biometry business ecology economics education engineering mathematics physical sciences psychology and sociology In addition data collection agencies in the government and private sector will benefit from the book **Introduction to Linear Regression Analysis** Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining, 2015-06-29 Praise for the Fourth Edition As with previous editions the

authors have produced a leading textbook on regression Journal of the American Statistical Association A comprehensive and up to date introduction to the fundamentals of regression analysis Introduction to Linear Regression Analysis Fifth Edition continues to present both the conventional and less common uses of linear regression in today s cutting edge scientific research The authors blend both theory and application to equip readers with an understanding of the basic principles needed to apply regression model building techniques in various fields of study including engineering management and the health sciences Following a general introduction to regression modeling including typical applications a host of technical tools are outlined such as basic inference procedures introductory aspects of model adequacy checking and polynomial regression models and their variations The book then discusses how transformations and weighted least squares can be used to resolve problems of model inadequacy and also how to deal with influential observations The Fifth Edition features numerous newly added topics including A chapter on regression analysis of time series data that presents the Durbin Watson test and other techniques for detecting autocorrelation as well as parameter estimation in time series regression models Regression models with random effects in addition to a discussion on subsampling and the importance of the mixed model Tests on individual regression coefficients and subsets of coefficients Examples of current uses of simple linear regression models and the use of multiple regression models for understanding patient satisfaction data In addition to Minitab SAS and S PLUS the authors have incorporated JMP and the freely available R software to illustrate the discussed techniques and procedures in this new edition Numerous exercises have been added throughout allowing readers to test their understanding of the material Introduction to Linear Regression Analysis Fifth Edition is an excellent book for statistics and engineering courses on regression at the upper undergraduate and graduate levels The book also serves as a valuable robust resource for professionals in the fields of engineering life and biological sciences and the social sciences

*SAS System for Regression*  
 Rudolf Freund, Ramon Littell, 2000-12-29 SAS System for Regression Learn to perform a wide variety of regression analyses using SAS software with this example driven revised favorite from SAS Publishing With this Third Edition you will learn the basics of performing regression analyses using a wide variety of models including nonlinear models Other topics covered include performing linear regression analyses using PROC REG diagnosing and providing remedies for data problems including outliers and multicollinearity Examples feature numerous SAS procedures including REG PLOT GPLOT NLIN RSREG AUTOREG PRINCOMP and others A helpful discussion of theory is supplied where necessary Some knowledge of both regression and the SAS System are assumed New for this edition The Third Edition includes revisions updated material and new material You ll find new information on using SAS INSIGHT software regression with a binary response with emphasis on PROC LOGISTIC nonparametric regression smoothing using moving averages and PROC LOESS Additionally updated material throughout the book includes high resolution PROC REG graphics output using the OUTEST option to produce a data set and using PROC SCORE to predict another data set

*Applied Regression Analysis* Norman R.

Draper, Harry Smith, 2014-08-25 An outstanding introduction to the fundamentals of regression analysis updated and expanded The methods of regression analysis are the most widely used statistical tools for discovering the relationships among variables This classic text with its emphasis on clear thorough presentation of concepts and applications offers a complete easily accessible introduction to the fundamentals of regression analysis Assuming only a basic knowledge of elementary statistics Applied Regression Analysis Third Edition focuses on the fitting and checking of both linear and nonlinear regression models using small and large data sets with pocket calculators or computers This Third Edition features separate chapters on multicollinearity generalized linear models mixture ingredients geometry of regression robust regression and resampling procedures Extensive support materials include sets of carefully designed exercises with full or partial solutions and a series of true false questions with answers All data sets used in both the text and the exercises can be found on the companion disk at the back of the book For analysts researchers and students in university industrial and government courses on regression this text is an excellent introduction to the subject and an efficient means of learning how to use a valuable analytical tool It will also prove an invaluable reference resource for applied scientists and statisticians

**Applied Regression Analysis and Other Multivariable Methods** David G. Kleinbaum, Lawrence L. Kupper, 1978

Correlation and Regression Analysis Thomas J. Archdeacon, 1994 A blueprint for historians to understand and evaluate the variables and discusses the fundamentals of regression analysis 2 looks at procedures for assessing the level of association among diagnostic methods for identifying and correcting shortcomings Finally part 3 presents more advanced topics including in regression models quantitative analyses they re likely to encounter in journal literature and monographs on research in the social sciences ignore the fact that most historians have little background in mathematics would be folly to decipher equations and follow their logic Concepts are introduced carefully and the operation of equations is explained step by step Annotation copyright by Book News Inc Portland OR

**Regression Analysis for the Social Sciences** Rachel A. Gordon, 2012-06-25 The book provides graduate students in the social sciences with the basic skills that they need to estimate interpret present and publish basic regression models using contemporary standards Key features of the book include interweaving the teaching of statistical concepts with examples developed for the course from publicly available social science data or drawn from the literature thorough integration of teaching statistical theory with teaching data processing and analysis teaching of both SAS and Stata side by side and use of chapter exercises in which students practice programming and interpretation on the same data set and course exercises in which students can choose their own research questions and data set

**Regression Analysis** Jeremy Arkes, 2019-01-21 With the rise of big data there is an increasing demand to learn the skills needed to undertake sound quantitative analysis without requiring students to spend too much time on high level math and proofs This book provides an efficient alternative approach with more time devoted to the practical aspects of regression analysis and how to recognize the most common pitfalls By doing so the book will better



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