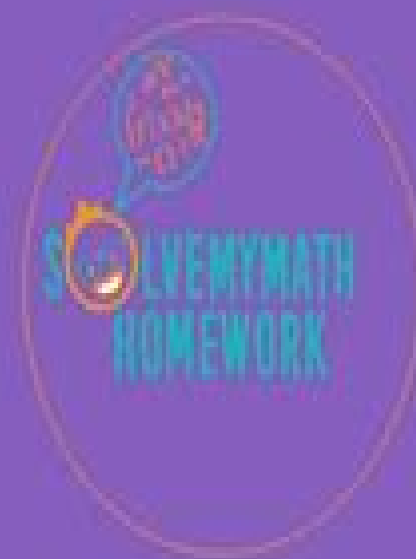


A company is tracking the number of times a post to a popular social internet site has been shared. The data is shown below

Hours, x	1	2	3	4	5	6
Shares, y	28	44	49	65	88	100

- Determine a linear regression model and an exponential regression model that best fits these data. Round all parameters to the nearest tenth.
- The correlation coefficient for both models, when rounded to the nearest hundredth is $r = 0.99$. What does this tell you about the predictive ability of these models.
- Does your linear model from part A over or under predict the number of shares at 6 hours?
- After 24 hours, the post has been shared 10,952 times. Which model does a better job extrapolating the data trend out to 24 hours? Justify.

LINEAR & EXPONENTIAL REGRESSION



#SMMHW

Linear Regression Word Problems

Richard A. Lesh, Marsha Landau



Linear Regression Word Problems:

Investigations in Mathematics Education, 1969 **Testing Research Hypotheses Using Multiple Linear Regression**
Keith A. McNeil, Francis J. Kelly, Judy T. McNeil, 1975 Multiple regression is becoming more widely used as the statistical technique for answering research hypotheses. This is so for several reasons: 1. the technique is extremely versatile; 2. the computer has made the technique more available to researchers; and 3. texts such as the authors' earlier work are making the technique more available to researchers. The statistical technique of multiple regression allows the inclusion of numerous continuous quantitative and categorical qualitative variables in the prediction of some criterion. Appendixes contain a multiple regression computer program and data on which the problems are based; a discussion of the similarities and differences between analysis of variance and multiple regression; and a computer program providing the regression solution to natural language research hypotheses. *Teaching College Biology Students the Simple Linear Regression Model Using an Interactive Microcomputer Graphics Software Package* James B. Curts, 1985 **Dissertation Abstracts International**, 1980 **What Matters? Research Trends in International Comparative Studies in Mathematics Education** Ji-Won Son, Tad Watanabe, Jane-Jane Lo, 2017-03-03 This book provides a unique international comparative perspective on diverse issues and practices in mathematics education between and among the US and five high performing TIMSS education systems: Japan, China, Singapore, South Korea, and Taiwan. The book offers multiple perspectives on the important factors that contribute to mathematics teaching and learning in different educational systems and cultural contexts. Using large scale data generated by numerous international comparative studies, the book analyzes and provides context for various methodological perspectives. The book raises compelling questions and issues for mathematics education researchers, leading to a critical examination of what can be learned from other education systems. Authors address four major research perspectives by critically examining cross national similarities and differences such as research on the influence of curriculum on student learning, research on institutional systems of mathematics teacher education, research on improving teacher knowledge and pedagogical approaches, and research using large scale data. This collection of perspectives serves as a foundation for reviewing and analyzing the international comparative studies introduced in the book. **NBS Special Publication**, 1970 **Successful and Less Successful Students' Strategies for Writing Equations for Algebra Word Problems at Two Levels of Complexity** Sufian Abdullatif Kamal, 1986 **Resources in Education**, 1976-12 *An Author and Permuted Title Index to Selected Statistical Journals* Brian L. Joiner, 1970 All articles, notes, queries, corrigenda, and obituaries appearing in the following journals during the indicated years are indexed: *Annals of mathematical statistics* 1961-1969; *Biometrics* 1965-1969; *3 Biometrics* 1951-1969; *Journal of the American Statistical Association* 1956-1969; *Journal of the Royal Statistical Society Series B* 1954-1969; *2 South African statistical journal* 1967-1969; *2 Technometrics* 1959-1969; p iv **Investigations in Mathematics Education**, 1973 The Software Encyclopedia 2000 Bowker Editorial

Staff, 2000-05 Acquisition of Mathematics Concepts and Processes Richard A. Lesh, Marsha Landau, 1983 Problem Solving in Arithmetic as Transfer from a Productive Thinking Program Max E. Jerman, 1971 *Women and Educational Testing* Carol K. Tittle, Karen McCarthy, Jane Faggen Steckler, 1974 *Econometric Models, Techniques, and Applications* Michael D. Intriligator, Ronald G. Bodkin, Cheng Hsiao, 1996 This book surveys the theories techniques model building and data collection and applications of econometrics KEY TOPICS It focuses on those aspects of econometrics that are of major importance to readers and researchers interested in performing evaluating or understanding econometric studies in a variety of areas It reviews matrix notation and the use of multivariate statistics discusses the specification of the model and the development of data for its estimation covers recent developments in econometric models techniques and applications explains the estimation of single equation models and provides case studies of the applications of econometrics to a wide array of areas including traditional areas such as the estimation of demand functions and production functions and macroeconomic models *An Analysis of the Structural Variables that Determine Problem-solving Difficulty on a Computer-based Teletype* Elizabeth F. Loftus, 1970 **Cognitive and Psychometric Analysis of Analogical Problem Solving** Isaac I. Bejar, Roger Chaffin, Susan E. Embretson, 1991 If one were to conduct an analysis of any profession the ability to think analogically is more than likely to be one of the requirements for success be it an architectural studio a research laboratory a legal office or a nuclear plant Cognitive scientists are aware of the prominence of analogical reasoning in all forms of reasoning and learning and have devoted substantial effort to ascertaining its nature Test builders like cognitive scientists are aware of the centrality of analogical reasoning and figure correctly that a test that samples a student's ability to think analogically may well be a good predictor of success in a variety of fields This book is the result of a project to investigate analogical reasoning from both an individual differences and a cognitive perspective The book is directed to both researchers and practitioners concerned with the nature and measurement of analogical reasoning Cognitive scientists linguists psycholinguists and natural language researchers will find the semantic taxonomy and accompanying empirical results food for thought Test developers will find it reassuring that performance on verbal analogy items is not just a reflection of the size of a person's vocabulary and that tests can be designed according to principles rather than assembled to satisfy a set of statistical specifications Psychometricians will find that content and response modelling can go together and that there are distinct benefits in approaching psychometric response modelling from that integrative perspective

Problems of Representation in the Teaching and Learning of Mathematics Université du Québec à Montréal. Centre interdisciplinaire de recherche sur l'apprentissage et le développement en éducation, 1987 As the title suggests this book presents more questions than answers Although it was prepared for those involved in research in the field of mathematics education we also had in mind our colleagues who assume responsibility for the training of teachers It is aimed at providing those concerned with basic research orientations a fund of fundamental theoretical perspectives research

methodologies analyses and research results Introduction
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