

Chapter 10

Standard Costs and Variances

Solutions to Questions

10-1 A quantity standard indicates how much of an input should be used to make a unit of output. A price standard indicates how much the input should cost.

10-2 Separating an overall variance into a price variance and a quantity variance provides more information. Moreover, price and quantity variances are usually the responsibilities of different managers.

10-3 The materials price variance is usually the responsibility of the purchasing manager. The materials quantity and labor efficiency variances are usually the responsibility of production managers and supervisors.

10-4 The materials price variance can be computed either when materials are purchased or when they are placed into production. It is usually better to compute the variance when materials are purchased because that is when the purchasing manager, who has responsibility for this variance, has completed his or her work. In addition, recognizing the price variance when materials are purchased allows the company to carry its raw materials in the inventory accounts at standard cost, which greatly simplifies bookkeeping.

10-5 This combination of variances may indicate that inferior quality materials were purchased at a discounted price, but the low-quality materials created production problems.

10-6 If standards are used to find who to blame for problems, they can breed resentment and undermine morale.

Standards should not be used to find someone to blame for problems.

10-7 Several factors other than the contractual rate paid to workers can cause a labor rate variance. For example, skilled workers with high hourly rates of pay can be given duties that require little skill and that call for low hourly rates of pay, resulting in an unfavorable rate variance. Or unskilled or untrained workers can be assigned to tasks that should be filled by more skilled workers with higher rates of pay, resulting in a favorable rate variance. Unfavorable rate variances can also arise from overtime work at premium rates.

10-8 If poor quality materials create production problems, a result could be excessive labor time and therefore an unfavorable labor efficiency variance. Poor quality materials would not ordinarily affect the labor rate variance.

10-9 If overhead is applied on the basis of direct labor-hours, then the variable overhead efficiency variance and the direct labor efficiency variance will always be favorable or unfavorable together. Both variances are computed by comparing the number of direct labor-hours actually worked to the standard hours allowed. That is, in each case the formula is:

$$\text{Efficiency variance} = SR(AH - SH)$$

Only the "SR" part of the formula, the standard rate, differs between the two variances.

10-10 If labor is a fixed cost and standards are tight, then the only way to generate favorable labor efficiency

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Barbara M. Beaver



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Materials for Econometric Analysis of Cross Section and Panel Data, second edition Jeffrey M. Wooldridge, 2011-06-24 This is the essential companion to the second edition of Jeffrey Wooldridge's widely used graduate econometrics text The text provides an intuitive but rigorous treatment of two state of the art methods used in contemporary microeconomic research The numerous end of chapter exercises are an important component of the book encouraging the student to use and extend the analytic methods presented in the book This manual contains advice for answering selected problems new examples and supplementary materials designed by the author which work together to enhance the benefits of the text Users of the textbook will find the manual a necessary adjunct to the book Study Guide and Solutions Manual Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities

Solutions Manual to accompany Modern Engineering Statistics Thomas P. Ryan, 2007-10-12 An introductory perspective on statistical applications in the field of engineering Modern Engineering Statistics presents state of the art statistical methodology germane to engineering applications With a nice blend of methodology and applications this book provides and carefully explains the concepts necessary for students to fully grasp and appreciate contemporary statistical techniques in the context of engineering With almost thirty years of teaching experience many of which were spent teaching engineering statistics courses the author has successfully developed a book that displays modern statistical techniques and provides effective tools for student use This book features Examples demonstrating the use of statistical thinking and methodology for practicing engineers A large number of chapter exercises that provide the opportunity for readers to solve engineering related problems often using real data sets Clear illustrations of the relationship between hypothesis tests and confidence intervals Extensive use of Minitab and JMP to illustrate statistical analyses The book is written in an engaging

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Methods and Applications of Linear Models Ronald R. Hocking, 2005-02-04 A popular statistical text now updated and better than ever The ready availability of high speed computers and statistical software encourages the analysis of ever larger and more complex problems while at the same time increasing the likelihood of improper usage That is why it is increasingly important to educate end users in the correct interpretation of the methodologies involved Now in its second edition Methods and Applications of Linear Models Regression and the Analysis of Variance seeks to more effectively address the analysis of such models through several important changes Notable in this new edition Fully updated and expanded text reflects the most recent developments in the AVE method Rearranged and reorganized discussions of application and theory enhance text s effectiveness as a teaching tool More than 100 new exercises in the areas of regression and analysis of variance As in the First Edition the author presents a thorough treatment of the concepts and methods of linear model analysis and illustrates them with various numerical and conceptual examples using a data based approach to development and analysis Data sets available on an FTP site allow readers to apply analytical methods discussed in the book

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Instructor's Solutions Manual to Accompany Statistics in Practice Ronald L. Shubert, 1998

Multistate Systems Reliability Theory with Applications Bent Natvig, 2010-12-07 Most books in reliability theory are

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