

Quantitative Analysis Problems:

Problem 1 (7 total points)

Product A, B, & C are all produced on Line 1 in Oakbrook, Illinois.

Product A, B, & C are all produced at the same rate (5,000 lbs per day)

	Current Year Demand	Yearly Growth Rate	Line 1 Yearly Restricted Days
Product A	400,000 <u>lbs</u>	8%	Maintenance: 30 days
Product B	400,000 <u>lbs</u>	8%	Holidays: 10 days
Product C	400,000 <u>lbs</u>	-15%	Sanitation: 10 days

1. Your organization needs to know when to invest in an additional manufacturing line. As a rule, when total utilization exceeds 85%, additional capacity is required. Using the information above:
 - A. Create a table that shows total demand, total capacity, and % utilization per year for the next eight years. |
 - B. Determine if a line expansion is needed – if so, in what year?
 - C. If maintenance days are reduced from 30 to 15 per year, how does that change the answer to part B?

Answer Quantitative Analysis Questions

Abbas Tashakkori, Charles Teddlie



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Integrating Qualitative and Quantitative Methods David L. Morgan, 2013-06-21 Focusing on research designs for projects that collect both qualitative and quantitative data this practical book discusses strategies for bringing qualitative and quantitative methods together so that their combined strengths accomplish more than is possible with a single method The approach is broadly interdisciplinary reflecting the interest in mixed methods research of social scientists from anthropology communication criminal justice education evaluation nursing organizational behavior psychology political science public administration public health sociology social work and urban studies In contrast to an anything goes approach or a naive hope that two methods are better than one the author argues that projects using mixed methods must pay even more attention to research design than single method approaches The book s practical emphasis on mixed methods makes it useful both to active researchers and to students who intend to pursue such a career

Designing and Conducting Mixed Methods Research John W. Creswell, Vicki L. Plano Clark, 2007 Publisher description **Handbook of Mixed Methods in Social & Behavioral Research** Abbas Tashakkori, Charles Teddlie, 2003 The Handbook contains a gold mine of articles by leading scholars on what has come to be known as the third methodological movement in social research Aimed at surveying the differing viewpoints and disciplinary approaches of mixed methods this breakthrough book examines mixed methods from the research enterprise to paradigmatic issues to application The book also discusses the strengths and weaknesses of mixed

methods designs and provides an array of specific examples in a variety of disciplines from psychology to nursing The book closes with a brief section on how to teach and perform collaborative research using a mixed methods research design Written so that it can be used either as a pedagogical tool or as a reference for researchers the book is rich in examples and includes a glossary easy to follow diagrams and tables to help readers become more familiar with the language and controversies in this evolving area

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