

Solutions to Problems

1.

(a)	777	3 significant figures
(b)	81.60	4 significant figures
(c)	7.03	3 significant figures
(d)	0.03	1 significant figure
(e)	0.0086	2 significant figures
(f)	6465	4 significant figures
(g)	8700	2 significant figures
2.

(a)	$5.859 = 5.859 \times 10^0$
(b)	$21.8 = 2.18 \times 10^1$
(c)	$0.0068 = 6.8 \times 10^{-3}$
(d)	$328.65 = 3.2865 \times 10^2$
(e)	$0.219 = 2.19 \times 10^{-1}$
(f)	$444 = 4.44 \times 10^2$
3.

(a)	$8.69 \times 10^5 = 869,000$
(b)	$9.1 \times 10^3 = 9100$
(c)	$2.5 \times 10^{-1} = 0.25$
(d)	$4.76 \times 10^2 = 476$
(e)	$3.62 \times 10^{-5} = 0.0000362$
4. $\% \text{ uncertainty} = \frac{0.35 \text{ m}}{3.25 \text{ m}} \times 100\% = 11\%$
5.

(a)	$\% \text{ uncertainty} = \frac{0.2 \text{ s}}{4.5 \text{ s}} \times 100\% = 4.444\% \approx 4\%$
(b)	$\% \text{ uncertainty} = \frac{0.2 \text{ s}}{45 \text{ s}} \times 100\% = 0.4444\% \approx 0.4\%$
(c)	The time of 4.5 minutes is 270 seconds. $\% \text{ uncertainty} = \frac{0.2 \text{ s}}{270 \text{ s}} \times 100\% = 0.0741\% \approx 0.07\%$

Experimental Methodology Instructors Manual Fifth Edition

victor w. page



Experimental Methodology Instructors Manual Fifth Edition:

Research Methods and Statistics in Psychology, Fifth Edition Hugh Coolican, 2013-03-07 This fifth edition of Research Methods and Statistics in Psychology has been revised and updated providing students with the most readable and comprehensive survey of research methods statistical concepts and procedures in psychology today The book assumes no prior knowledge taking you through every stage of your research project in manageable steps Advice on planning and conducting studies analysing data and writing up practical reports is given and examples provided as well as advice on how to report results in conventional APA style Unlike other introductory texts there is discussion of commonly misunderstood concepts such as ecological validity the null hypothesis and the role of cross cultural psychology studies Qualitative research is included in the central research methods chapters as well as being highlighted in specialist chapters which cover content analysis grounded theory interpretative phenomenological analysis IPA narrative analysis discourse analysis and how to tackle a qualitative research project The book provides clear coverage of statistical procedures and includes everything needed at undergraduate level from nominal level tests to multi factorial ANOVA designs multiple regression and log linear analysis In addition the book provides detailed and illustrated SPSS instructions updated to version 16 for all statistical procedures including data entry and interpreting output thus eliminating the need for an extra SPSS textbook Each chapter contains a glossary key terms and newly integrated exercises ensuring that key concepts are understood A companion website www.routledge.com/cw/coolican provides additional exercises revision flash cards links to further reading and data for use with SPSS The bestselling research methods text for almost two decades Research Methods and Statistics in Psychology remains an invaluable resource for students of psychology throughout their studies *Instructor's Manual with Test Bank to Accompany Experimental Psychology, Understanding Psychological Research, Fifth Edition, Barry H. Kantowitz ...* Bradford Henry Challis, 1994 *Food Analysis Laboratory Manual* S. Suzanne Nielsen, 2017-06-07 This third edition laboratory manual was written to accompany Food Analysis Fifth Edition by the same author New to this third edition of the laboratory manual are four introductory chapters that complement both the textbook chapters and the laboratory exercises The 24 laboratory exercises in the manual cover 21 of the 35 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component or characteristic Most of the laboratory exercises include the following background reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis **Instructors Manual** James McMillan, Sally Schumacher, 2001-05 *Experimental Psychology: Students' manual. pt. 2. Instructor's manual* Edward Bradford Titchener, 1901 The general purpose with which this book has been written is sufficiently indicated by its title I have selected a number of the classical experiments of Experimental Psychology and have tried to present them in such a way that

their performance shall have a real disciplinary value for the undergraduate student Within this general purpose my aim has been two fold I have sought to show in the first place that psychology is above the laboratory that we employ our instruments of precision not for their own sake but solely because they help us to a refined and more accurate introspection And secondly just as in my Outline of Psychology and Primer of Psychology I gave the results of experimentation a prominent place in the psychological system so here I have treated the selected experiments not as separate exercises but as points of departure for systematic discussion PsycINFO Database Record c 2005 APA all rights reserved **Resources in Education** ,1995

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