Averages from Grouped Data



Give answers to 2 decimal places where necessary.

Section A Work out the modal class, median class and an estimate of the mean for the following data.

Weight (kg)	Frequency
40 - 49	13
50 - 59	28
60 - 69	37
70 - 79	44
80 - 89	21

Estimate of the mean:	
Modal class:	11
Median class:	

Distance (d km)	Frequency
0 ≤ d < 15	2
15 ≤ d < 30	7
30 ≤ d < 45	19
45 ≤ d < 60	30
60 ≤ d < 75	- 1

Estimate of the mean:	
Modal class:	
Median class:	

Section B

The daily rainfall, in millimetres, was recorded over a one month period and the results are shown in the frequency table.

Rainfall (mm)	Frequency
0 - 10	2
10 - 20	6
20 - 30	7
30 - 40	11
40 - 50	5

1) Estimate the amount of rainfall there was over the one month period.

2) As a percentage, how much of the month had more than 30 mm of rainfall?

3) Which is the modal class?

4) In which class is the median value?

5) Work out an estimate of the mean.

6) During the following month there were two days of heavy rainfall. Which average would you choose to represent the amount of rainfall in the following month?

Mean Range Quartile Work Sheet

David Baker

Mean Range Quartile Work Sheet:

Core Statistical Concepts With Excel® Gregory J. Privitera, Darryl J. Mayeaux, 2018-12-05 Core Statistical Concepts with Excel connects statistical concepts to applications with Excel using practical research examples The text jointly promotes an understanding of Excel and a deeper knowledge of core concepts through practice Authors Gregory J Privitera and Darryl Mayeaux provide students step by step instruction for using Excel software as a useful tool not only to manage but also analyze data all through the use of key themes features and pedagogy an emphasis on student learning a focus on current research and integration of Excel to introduce statistical concepts **Introductory Statistics, International Adaptation** Prem S. Mann, 2024-02-06 Introductory Statistics 10th edition is written for a one or two semester first course in applied statistics and is intended for students who do not have a strong background in mathematics The only prerequisite is knowledge of elementary algebra Known for its realistic examples and exercises clarity and brevity of presentation and soundness of pedagogical approach the book encourages statistical interpretation and literacy regardless of student background The book employs a clear and straightforward writing style and uses abundant visuals and figures which reinforce key concepts and relate new ideas to prior sections for a smooth transition between topics This international edition offers new and updated materials and focuses on strengthening the coverage by including new sections on types of scales negative binomial distribution and two way analysis of variance Additionally discussions on ogive curves geometric mean and harmonic mean have also been added Many examples and exercises throughout the book are new or revised providing varied ways for students to practice statistical concepts Quantitative Methods for Business John Buglear, 2007-03-30 Quantitative Methods for Business The A Z of OM will enable readers to Appreciate the significance of quantitative methods for businesses and the study of business Understand and apply a wide range of quantitative techniques Select appropriate quantitative techniques for data analysis problem solving and decision making Interpret and communicate the results of quantitative analysis **Key Maths** David Baker, 2001 Developed for the EDEXCEL specification this course provides preparation for GCSE success with a practical approach Detailed support and guidance are contained in the Teacher Files on advanced planning points of emphasis key words notes for the non specialist useful supplementary ideas and homework sheets Statistical Explorations with Microsoft Excel Millianne Lehmann, Paul Zeitz, 1997 This laboratory manual ideally accompanies Jessica Utts Seeing Through Statistics or any introductory statistics text that does not contain a lab component Provides a set of 17 labs using Microsoft Excel 5 0 that are central to statistical literacy using real problems with real data Key Maths GCSE. David Baker, 2002 Developed for the OCR Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for the non specialist useful supplementary ideas and homework sheets Merrill Algebra 1 Applications and Connections Reteaching Masters Earl Ostroff, 1995 Statistics for Managers Using

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Experiencing Mathematics James R. Breunlin, Timothy A. Kasper, Michelle Kolet, Kendra Letzel, Thomas Letzel, 2006-09-27 Experiencing Mathematics Activities to Engage the High School Student is the result of the collaborative effort of nine Adolescent Young Adult AYA National Board Certified Teachers in mathematics This teacher edition is a compilation of successful activities that prompt high school students to explore conjecture and reflect on their mathematical adventures thus experience mathematics. The relevant nature of the activities will motivate students to pursue their investigations with vigor and take the intellectual risk necessary to construct knowledge and improve problem solving competence.

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