

Statistics Worksheet

Standard Deviation

Standard Deviation Worksheet

You are interested in the different amount of calories that may be in different brands of cheese pizza.

Brand	Calories per slice	Brand	Calories per slice
1	500	6	758
2	321	7	652
3	456	8	568
4	412	9	496
5	298	10	378

1. Calculate the mean for the ten pizza brands.

STEP 1 Calculate the mean = 4839/10 = 484

2. Calculate the standard deviation for the ten brands of pizza in this table.

STEP 2 Subtract each reading from the mean value, square each result, and add up the results.

Ex. $(484-500)^2 + (484-321)^2 \dots$

$$= 16^2 + 163^2 + 28^2 + 72^2 + 186^2 + 274^2 + 168^2 + 84^2 + 12^2 + 106^2$$

$$= 256 + 26569 + 784 + 5184 + 34596 + 75076 + 28224 + 7056 + 144 + 11236 = 189,125$$

STEP 3 Divide the result from Step 2 by (n-1) (one less than the number of data points) (9 in this case).

$$189125 / 9 = 21014$$

STEP 4 Take the square root of result in Step 3, determining standard deviation.

$$SD = \sqrt{21014} = 145$$

What is the range of pizza calorie values to +/- ONE SD? $484 - 145$ & $484 + 145$ = 339-629 calories

Academic Algebra 2 Statistics Practice Worksheet

Neil Weiss



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Excel 2013 for Engineering Statistics Thomas J. Quirk, 2015-10-15 This is the first book to show the capabilities of Microsoft Excel to teach engineering statistics effectively It is a step by step exercise driven guide for students and practitioners who need to master Excel to solve practical engineering problems If understanding statistics isn't your strongest suit you are not especially mathematically inclined or if you are wary of computers this is the right book for you Excel a widely available computer program for students and managers is also an effective teaching and learning tool for quantitative analyses in engineering courses Its powerful computational ability and graphical functions make learning statistics much easier than in years past However *Excel 2013 for Engineering Statistics A Guide to Solving Practical Problems* is the first book to capitalize on these improvements by teaching students and managers how to apply Excel to statistical techniques necessary in their courses and work Each chapter explains statistical formulas and directs the reader to use Excel commands to solve specific easy to understand engineering problems Practice problems are provided at the end of each chapter with their solutions in an Appendix Separately there is a full Practice Test with answers in an Appendix that allows readers to test what they have learned

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The Practice of Business Statistics Excel Manual Fred Hoppe, David S. Moore, George P. McCabe, William M. Duckworth, Stanley L. Sclove, 2003-05-16 *SAT Subject Test Math Level 2* The Editors of Rea, 2006-05-01 Taking the Math Level 2 SAT Subject Test tm Score Higher with REA's Test Prep for SAT Subject Test tm Math Level 2 with Practice Tests on CD Our bestselling SAT Subject Test tm Math Level 2 test prep includes a comprehensive review of algebra solid geometry trigonometry and more Each chapter contains examples and practice questions that help you study smarter and boost your test score The book includes 6 full length practice tests that replicate

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Addison-Wesley Informal Geometry, 1992 *Introductory Statistics and Elementary Statistics* Neil Weiss, 1999

Practice Master, 1995 Key Maths 7/2 David Baker, 2000 These resources provide invaluable support within the Key Maths series for all mathematics teachers whether specialists or non-specialist experienced or new to the profession

Quality Instruction and Intervention Strategies for Secondary Educators Brittany L. Hott, 2023-03-17 Quality Instruction and Intervention Strategies for Secondary Educators offers a summary of evidence based instruction followed by the most up to date empirically validated interventions for students with and at risk for disabilities in grades 6-12 Featuring key questions case studies essential vocabulary and tools that can be used in the classroom this practical text is ideal for pre and in service teachers After reading this book general and special educators alike will be able to describe the components of effective instruction and intervention in each of the content areas reading mathematics writing science and social studies access empirically validated materials and locate resources for continued learning **Glencoe Algebra 1** Kenneth J. Travers, 1990

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