

[Summary](#)
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Students investigate the number of licks of a Tootsie Roll Pop needed to get to the center. In doing so they analyze class data to interpret and compare z-scores for normally distributed data; and apply properties of normal distributions to determine probabilities associated with areas under the standard normal curve.

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Created Jan. 8, 2020 by Deb Crawford

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AFDA.7 The student will analyze the normal distribution to:

- b) interpret and compare z-scores for normally distributed data; and
- c) apply properties of normal distributions to determine probabilities associated with areas under the standard normal curve.

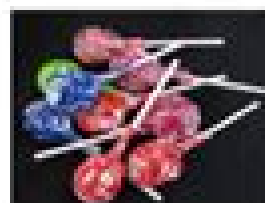
Key concepts include

percentiles;

normalizing data, using z-scores; and

area under the standard normal curve and probability.

Question: How many licks does it take to get to the center of a Tootsie pop? The world may never know... until now!



Tootsie Roll Industries is aware of three scientific studies that have been conducted to determine how many licks it takes to reach the center of a Tootsie Pop.

- A group of engineering students from Purdue University recorded that a licking machine, modeled after a human tongue, took an average of 364 licks to get to the center. They tried the same licking test on 20 volunteers, and found that the average licks to the center were 252.
- A chemical engineering doctorate student at the University of Michigan recorded that his licking machine required an average of 411 licks.
- A group of students at Swarthmore School did an in-school experiment using humans, and determined that it took an average of 144 licks to get to the center.

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BM King



Tootsie Roll Pop Lab:

A Watched Cup Never Cools Ellen Kamischke, 2015-03-30 This book is the second edition containing 11 new and 17 revised calculus labs These 28 individual and small group activities explore concepts in calculus Each lab includes teacher notes providing model solutions and tips for assigning The labs are indexed by topics covered and equipment needs **The AMS Weather Book** Jack Williams, 2013-04-05 America has one of the most varied and dynamic weather systems in the world Every year the Gulf Coast is battered by hurricanes the Great Plains are ravaged by tornados the Midwest is pummeled by blizzards and the temperature in the Southwest reaches a sweltering 120 degrees Extreme weather can be a matter of life and death but even when it is pleasant 72 degrees and sunny weather is still central to the lives of all Americans Indeed it is hard to imagine a topic of greater collective interest Whether we want to know if we should close the storm shutters or just carry an umbrella to work we turn to forecasts But few of us really understand the science behind them All that changes with The AMS Weather Book The most comprehensive and up to date guide to our weather and our atmosphere it is the ultimate resource for anyone who wants to understand how hurricanes form why tornados twirl or even why the sky is cerulean blue Written by esteemed science journalist and former USA Today weather editor Jack Williams The AMS Weather Book covers everything from daily weather patterns to air pollution and global warming and explores the stories of people coping with severe weather and those who devote their lives to understanding the atmosphere oceans and climate Words alone of course are not adequate to explain many meteorological concepts so The AMS Weather Book is filled with engaging full color graphics that explain such concepts as why winds blow in a particular direction how Doppler weather radar works what happens inside hurricanes how clouds create wind and snow and what is really affecting the earth's climate For Weather Channel junkies amateur meteorologists and storm chasers alike The AMS Weather Book is an invaluable tool for anyone who wants to better understand how weather works and how it affects our lives **The Purple Deer and the Joy of Becoming a Teacher** Laura Hodges, 2003-09-10 The Purple Deer and the Joy of Becoming a Teacher is a guide for people who want to make a difference in life or who feel that something is missing in their own lives or who want to be fulfilled by embarking on a career full of excitement and adventure The book is aimed at established professionals contemplating a career change new college graduates unsure of a career path or even education majors looking for a resource to help them as they begin their teaching Beyond offering inspiration and encouragement the book provides the aspiring or novice teacher a great deal of practical advice about motivating students planning exciting lessons managing the classroom dealing with behavior problems working with parents dealing with school administrators working with other teachers in short it is a guide to establishing a solid foundation on which to build a satisfying career **Happily Ever Resilient** Stephanie Goloway, 2022-04-26 All children deserve the tools to fight off whatever dragons they encounter and move happily through life In Happily Ever Resilient Dr Stephanie Goloway uses current trauma research and beloved multicultural variants of classic children's fairytales to create

joyful playful learning experiences for young children Part one of the book covers why using fairytales in early childhood classrooms supports resilience and literacy in all children especially important for children who have experienced trauma and toxic stress Part two covers how to do this Each chapter includes Story Magic information about the fairytale and its multicultural variants how the story connects with the protective factors of resilience and suggestions for storytelling and storyacting Caring Magic activities that help children make connections with each other and adults in their lives related to the story Doing Magic suggestions for adapting classroom learning centers to support children s engagement with both the fairytale and resilience along with projects that promote initiative and executive functions Superpower Magic activities songs and games related to the story that foster self regulation as well as ways the story can be used to support calm integrated transitions and routines By tapping into the extraordinary magic of fairytales early childhood educators can create the ordinary magic of resilience

Brands and Their Companies ,1997 *The Manufacturing Confectioner* ,2006 **The New York Times Magazine** ,2004 Snack Food ,1993 **The Compu-mark Directory of U.S. Trademarks** ,1991

CI: Candy Industry and Confectioners Journal ,1968 **The Illinois Fire Fighter** ,1978 *Billboard* ,1955-10-22 In its 114th year Billboard remains the world s premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends **Standard Directory of Advertisers** ,1982

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