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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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# Tootsie Pop Lab

*Created Jan. 8, 2020 by Deb Crawford*

## Tootsie Pop Lab

**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.

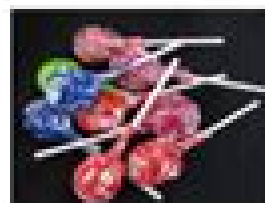
Key concepts include

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.

# Tootsie Roll Pop Lab

**Jack Williams**



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