The t-distribution

0:00 / 10:17

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SPEAKER: MICHAEL J. MAHOMETA, Ph.D.

In this video I'd like to introduce you to a very important statistician:

William Gosset.

Why is he important?

Because he was an employee of Guinness Beer in the early 20th century

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Comprehension Check

1. Here is the formula for calculating the t-statistic for a single sample:

$$t = \frac{sample\ mean\ -\ hypothesized\ mean}{standard\ error}$$

Lab due May 03, 2016 at 17:00 UTC

Problem Set
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(1/1 point)
1a. Which part of the formula tells you how far your sample mean is from the center of the sampling distribution?

Numerator ✔ **Answer:** Numerator

(1/1 point)
1b. Which part of the formula tells you how far a sample mean is expected to be from the center of the distribution?

Denominator ✔ **Answer:** Denominator

2. Which of the following is true of the t-distribution?

(1/1 point)

- Increasingly resembles the normal distribution as degrees of freedom increase.
- Assumes the population is normally distributed
- It has a greater spread than the normal distribution.
- All of the above. ✔