μ

Population of DSE students with true mean of 23.8 years with SD of 2.75 years

L 23.17, 26.57, 21.04, 23.50, 21.69, 27.48, 20.64, 24.22, 20.45, 24.09, 25.04, 21.82, 24.90, 21.45, 29.93, 21.96, 25.84, 26.08, 23.18, 25.41, 22.12, 28.85, 18.14, 28.86, 24.64, 24.99, 21.49, 25.87, 22.00, 26.61, 23.58, 24.21, 24.40, 24.06, 19.43, 30.19, 21.46, 21.94, 25.63, 22.96, 22.37, 23.23, 29.59, 19.39, 26.87, 23.49, 25.46, 27.45, 20.48, 27.13]

50 t~ids

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Dist of 50 71's

[23.85,23.67,23.73,23.72,25.19,25.00,25.06,23.82,24.22,23.69,23.25,23.68,24.03,24.06, 23.62, 23.80, 23.66, 23.76, 23.79, 24.42, 23.94, 24.68, 24.46,23.98,23.85, 23.57, 23.91, 24.43, 24.46, 23.47, 24.43, 23.63, 24.82, 24.35, 24.741, 23.67, 23.10, 24.40,24.12, 24.39, 24.48, 23.60, 23.91, 24.47, 24.23, 24.16, 23.96, 24.18,24.49, 24.32]

Mean of the mean distributions = 24.12 (Estimated Mean)
Standard Deviation (Standard Error in predicting the mean=Average difference of all 50 attempts) = 0.49

One round of sampling done with n=30 25.63,24.09,28.85,24.20,25.87, 25.41,29.59,23.18,21.45,24.63,20.47,24.41,25.41,23.57,21.46,20.64,

24.22, 22.96,26.57,18.14,25.63,25.87, 24.20,25.46,20.47, 25.411, 20.45, 26.61, 23.57, 27.12

Mean=24.18

SD=2.60

95% CI Range

2418 ± 1.96 *

95% CI Range

[24.12 ± 1.96 * 0.49]

=>(23.16 to 25.08)

$$33.25 = 24.18 - 1.96 \times \frac{S}{\sqrt{n}}$$

$$24.18 + 1.96 \times \frac{S}{\sqrt{n}} = 25.11$$

$$1.96 \times \frac{S}{\sqrt{s}} = 25.11 - 24.18$$

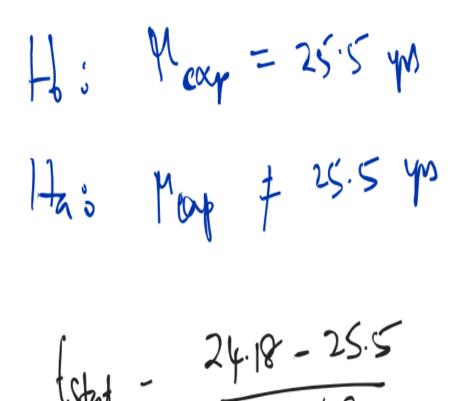
$$1.96 \times \frac{S}{\sqrt{s}} = 25.11$$

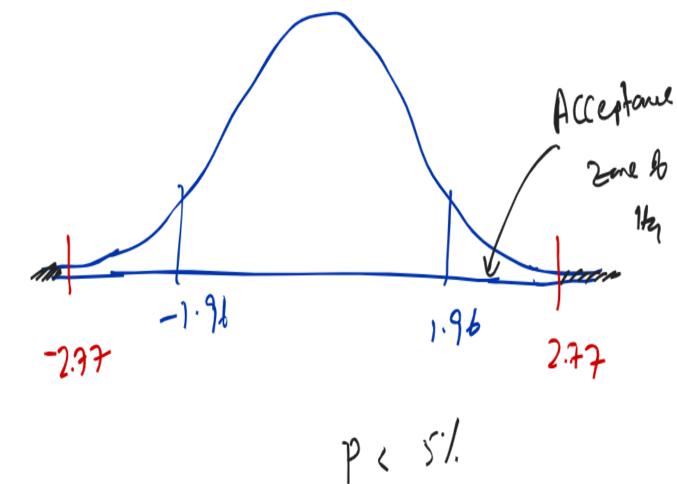
$$1.96 \times \frac{S}{$$

Ha: Mexp = 23.54 tsted = \frac{\frac{1}{3} - 23}{5/\tau}

1th: Mexp = 23.540 Sample Statistic Plug in = 24.18, S=0.47 The values 24.18 - 23.5 P-value > 5.1.

7.43 24.18 1.45





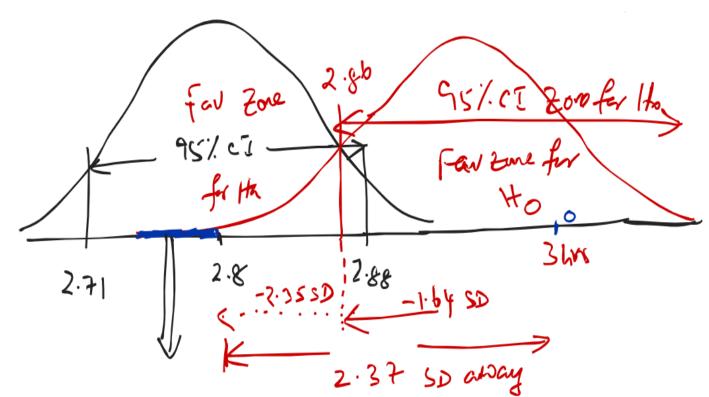
Counier Company example

Ha (3 hrs

Ti= 2.8

Ho 7.3 hrs

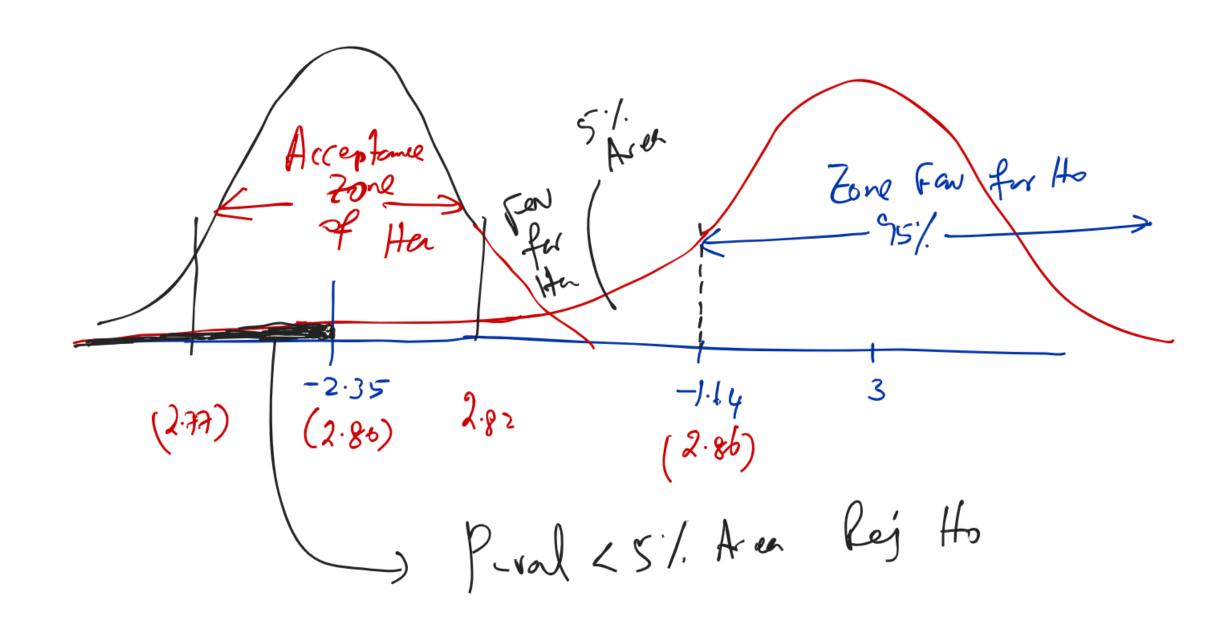
S=0.6



1 std = 2.8-3 =

$$-1.9b = \frac{?-3}{0.5/\sqrt{50}} =) 2.82$$

flene we réged Ho Sample Stadistic is few for Courier Company Claim



Soyabean Y'eld example

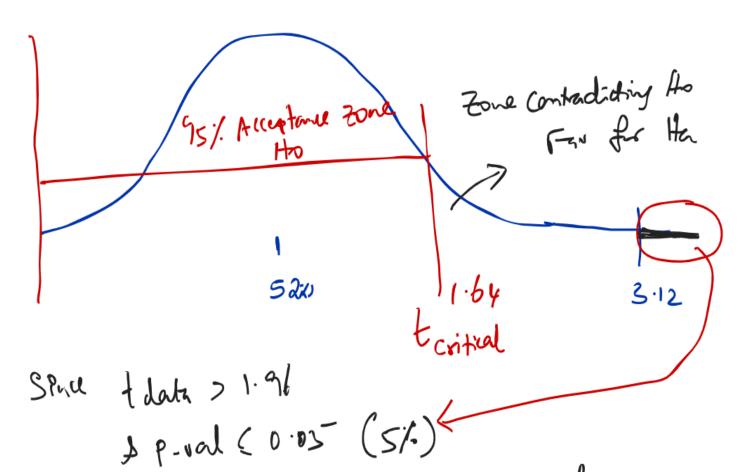
Ho < 520

1 = 3b

1 = 58h.1b

SD = 127.28

Eduta = 586.16-520 = 3.12



Texas AJM claim is True

Ha: Mpop = 3 Ha: #=

Sample

1 95% (E) 1.96 -2.37 -1.96 237

$$\frac{1}{\sqrt{50}} = \frac{28-3}{0.6} = -2.37$$

$$= 0.018 < 0.05$$
Ho in vige ched

