

Chapter 6 Confidence Intervals

z-table

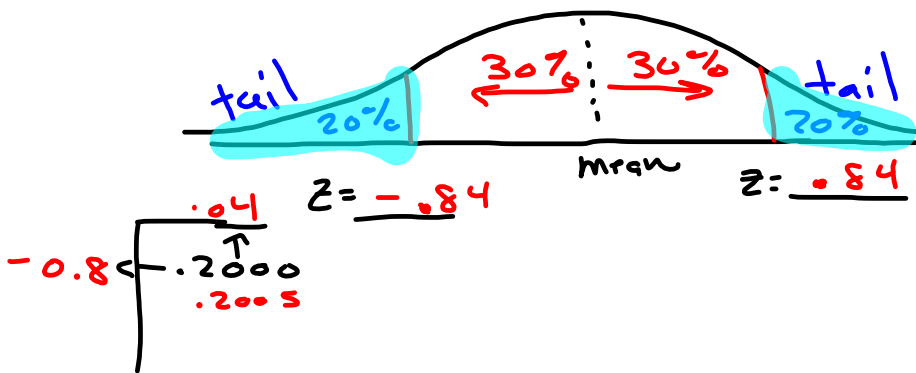
↻ Inside is % → convert to decimal

"about the mean"

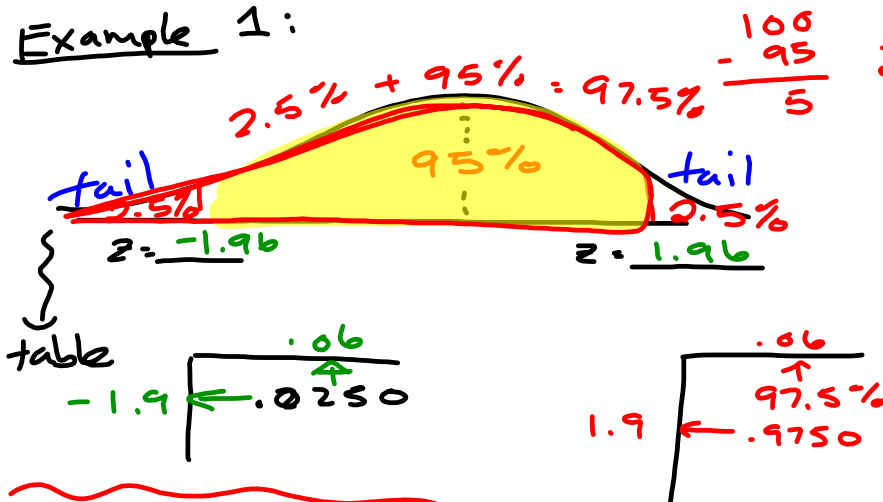
Normal curve is symmetrical

$$\frac{100}{40} = 2.5$$

$$40/2 = 20\%$$



Example 1:



$$\frac{100}{40} = 2.5$$

Steps

- 1) tails =
- 2) decimal
- 3) z-table
- 4) z-score

Percents

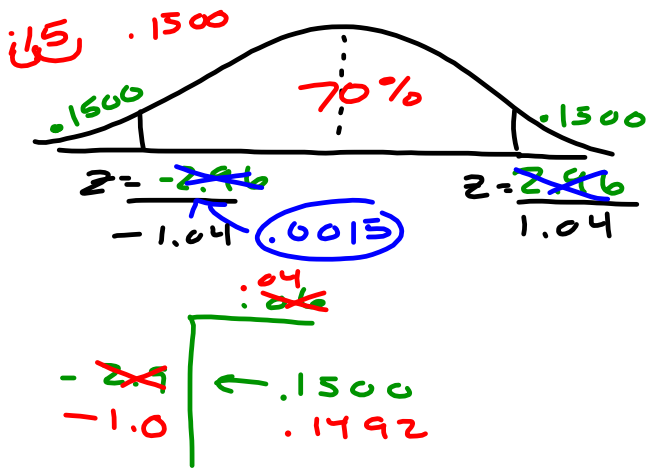
$$2.5\%$$

$$\rightarrow$$

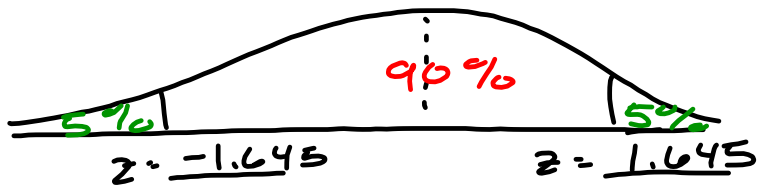
$$.0250$$

Example

$15\% = .1500$



Example 2



$.05\%$

$.0500$

$$\frac{-1.64 + -1.65}{2} = -1.645$$

Example 3, 4, 5, 6 .

