

Professor Notes About the “Confidence Regions” Homework

- XXX

Confidence Region Calculations

1. See below.

- (a) $C=0.95$
- (b) Upper bound
- (c) $Z^*=1.645$.
- (d) 79.0.
- (e) I am 95% confident that the true population mean is less than 79.0.

2. See below.

- (a) $C=0.95$
- (b) Interval
- (c) $Z^* = \pm 1.960$.
- (d) 1122.1-1617.9.
- (e) I am 95% confident that the true population mean is between 1122.1 and 1617.9.

Beetle Size

- 1. 188.7
- 2. I am 95% confident that the true population mean thorax length is greater than 188.7 mm.

R Appendix.

```
library(NCStats)
zstar <- distrib(0.95,type="q")
zstar <- distrib(0.975,type="q")
distrib(0.95,type="q",lower.tail=FALSE)
```