



R Code for Examples in the book
“Statistics: The Art and Science of Learning from Data”
by Agresti, Franklin and Klingenberg, 5th edition

Chapter 8

Example 10: Estimating Mean Education in South Africa – Finding n

Reading in sample data

```
s <- 3
```

Setting 95% confidence level

```
zscore = qnorm(0.975)
```

Setting the margin of error to what we need

```
me <- 1
```

To compute the number of samples required to acquire our wanted margin of error

```
n <- (s ** 2) * (zscore ** 2) / (me ** 2)
round(n)

## [1] 35
```