



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

## Chapter 8

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

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#### 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
```