



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 5: Exit Poll – Choosing a Sample Size

Reading in sample proportion data

```
phat <- 0.58
```

Setting 95% confidence level

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

Setting the margin of error to what we need

```
me <- 0.04
```

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

```
n <- (zscore ** 2) * phat * (1 - phat) / (me ** 2)  
round(n)
```

```
## [1] 585
```