## Homework 8.1

## Drew Remmenga

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```
Exercise 9.1 (a)
2.57583^2*.5*(1-.5)/(.05^2)
## [1] 663.49
 (b)
2.57583^2*.3*(1-.3)/(.05^2)
## [1] 557.3316
(C)
2.57583^2*.3*(1-.3)/(.05^2)/.4
## [1] 1393.329
Exercise 9.4 (a)
(1.96/.002)^2*.5*(1-.5)
## [1] 240100
 (b) Random sampling will give reliable information about the true number of defective items.
     Exercise 9.6 (a)
.8+1.645*sqrt(.8*(1-.8)/100)
## [1] 0.8658
.8-1.645*sqrt(.8*(1-.8)/100)
## [1] 0.7342
 (b)
```

```
.8+1.645*sqrt(.8*(1-.8)/200)
## [1] 0.8465276
```

## [1] 0.7534724

.8-1.645\*sqrt(.8\*(1-.8)/200)