Lee O’Sullivan – 2992902 – Assignment 3

1. N = 350

Ps = .62

Z = 1.96

= .05085219366

.62 - .05085219366

= .6708521937

.62 + .05085219366

= .5691478063

We are 95% confident that between 56.914% and 67.085% of Irish households have a broadband connection

1. N = 200

Ps = .15

Z = 1.96

= .0494875742

.15 - .0494875742

= .1005124258

.15 + .0494875742

= .1994875742

We are 95% confident that between 10.051% and 19.948% of tyres are defective

1. N = 300

Ps = .14

Z = 2.58

= .05168592845

.14 - .05168592845

= .08831407155

.14 + .05168592845

= .1916859285

We are 99% confident that between 8.831% and 19.168% of mortgage holders are currently in arrears

1. N = 190

Z = 1.96

= 14

= 160

= 1.99070683

160 – 1.99070683

= 158.0092932

160 + 1.99070683

161.99070683

We are 95% confident that the battery will have a current output between 158.009A and 161.990A

1. N = 350

Ps = .35

Z = 1.96

= .04997039123

.35 - .04997039123

= .3000296088

.35 + .04997039123

= .39997039123

We are 95% confident that between 30.002% and 39.997% of the test audience watched the show