For this week I chose problem 8.62. To solve this, you’ll need to find the sample size when estimating .

2

E = 20

z = 1.96

600-30 = 570(.25) = 142.5 =

[(1.96\*142.5)/20]^2 = 195 = n

With a 95% confidence interval the z-score according to the table in the book is 1.96. To get this .95/2 = .4750. Locate this value on the table, corresponding z score is 1.96.

Error is given in the problem at 20.

The range is provided and this can be used to estimate the standard deviation = 142. 5

Plug in values into the formula and solve for n. To get an average home repair bill, the entrepreneur must sample at least 195 households.