# Homework 7.2

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#### 2024-08-05

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Exercise 8.9 (a)
(8-6.5)-2.021*sqrt(3.25*(2/21))
## [1] 0.3756194
(8-6.5)+2.021*sqrt(3.25*(2/21))
## [1] 2.624381
 (b)
(8-6.5)+2.032*sqrt((2.1213<sup>2</sup>)/21+(1.4142<sup>2</sup>)/21)
## [1] 2.63049
(8-6.5)-2.032*sqrt((2.1213<sup>2</sup>)/21+(1.4142<sup>2</sup>)/21)
## [1] 0.3695104
Exercise 8.14 (a)
t1=qt(.95,24)
(27.5-25.5)+t1*(2/sqrt(25))
## [1] 2.684353
(27.5-25.5)-t1*(2/sqrt(25))
## [1] 1.315647
 (b)
t1=qt(.95,24)
37.3-30.6+t1*(13/sqrt(25))
## [1] 11.14829
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## 37.3-30.6-t1\*(13/sqrt(25))

## ## [1] 2.251707

(c) We can conclude it is more difficult to handle a high volume during the holidays.