Math 308 Exercises 2.8

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$\overline{x} = 6.5$
$m = 5.5$
$\tilde{x} = 2.389726$
$\tilde{m} = 2.342779$
$f(\overline{x}) \neq \tilde{x}$
$f(m) \neq \tilde{m}$

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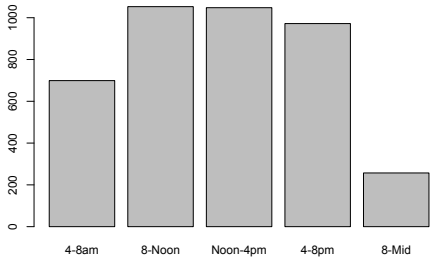
a)

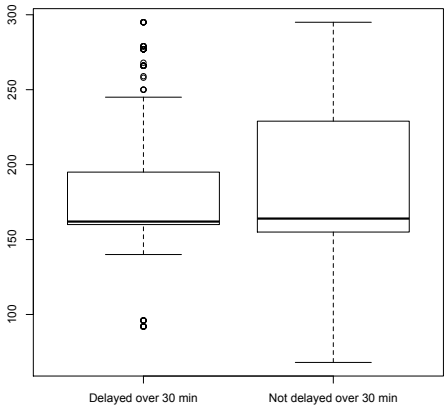
4-8am	8-Noon	Noon-4pm	4-8pm	8-Mid
699	1053	1048	972	257



b)

	No	Yes	Proportion
Mon	569	61	0.09682540
Tue	535	93	0.14808917
Wed	488	76	0.13475177
Thu	434	132	0.23321555
Fri	493	144	0.22605965
Sat	406	47	0.10375276
Sun	507	44	0.07985481

c)



d)

There appears to be no relationship.

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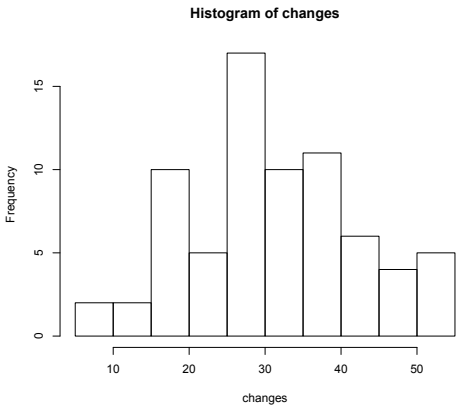
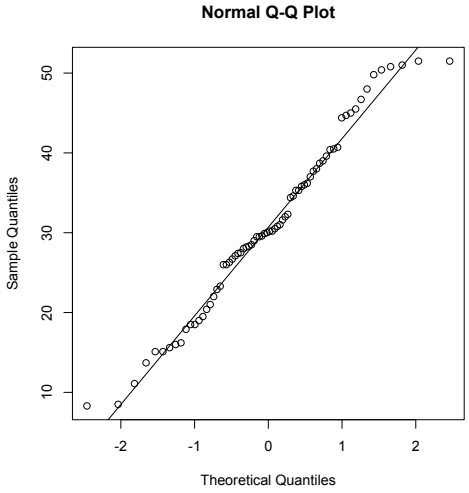
Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.30	23.20	30.10	30.93	38.17	51.50

a)





The distribution is approximately normal as shown by the close fit between the normal and theoretical quantiles.