

## Hypo testing of means

### Time taken to fall asleep and

#### One-Sample T: Time taken to fall asleep(Min)

##### Descriptive Statistics

N	Mean	StDev	SE Mean	95% CI for $\mu$
70	20.14	13.67	1.63	(16.88, 23.40)

$\mu$ : mean of Time taken to fall asleep(Min)

##### Test

Null hypothesis  $H_0: \mu = 20$   
Alternative hypothesis  $H_1: \mu \neq 20$

T-Value	P-Value
0.09	0.931

#### One-Sample T: Hours on internet daily

##### Descriptive Statistics

N	Mean	StDev	SE Mean	95% CI for $\mu$
70	5.229	2.900	0.347	(4.537, 5.920)

$\mu$ : mean of Hours on internet daily

##### Test

Null hypothesis  $H_0: \mu = 5$   
Alternative hypothesis  $H_1: \mu \neq 5$

T-Value	P-Value
0.66	0.512

#### One-Sample T: Sleep duration (Hours)

##### Descriptive Statistics

N	Mean	StDev	SE Mean	95% CI for $\mu$
70	6.443	1.125	0.134	(6.175, 6.711)

$\mu$ : mean of Sleep duration (Hours)

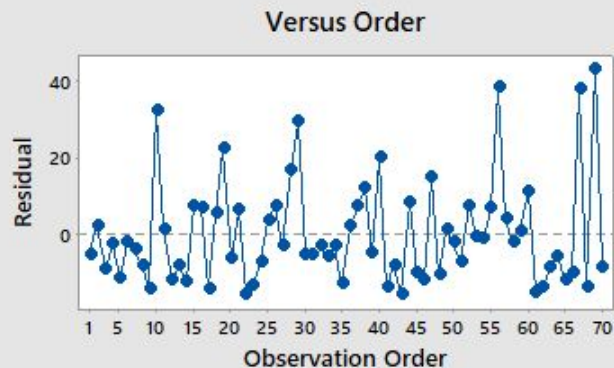
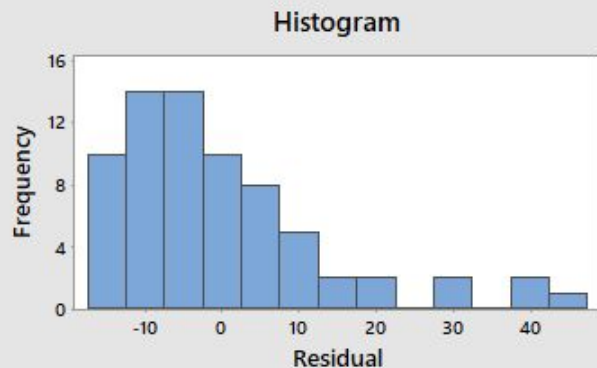
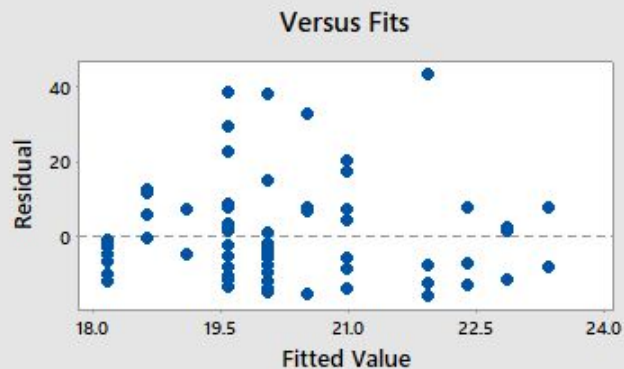
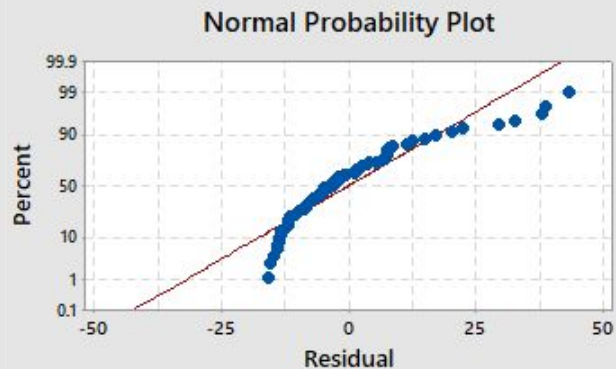
##### Test

Null hypothesis  $H_0: \mu = 7$   
Alternative hypothesis  $H_1: \mu \neq 7$

T-Value	P-Value
-4.14	0.000

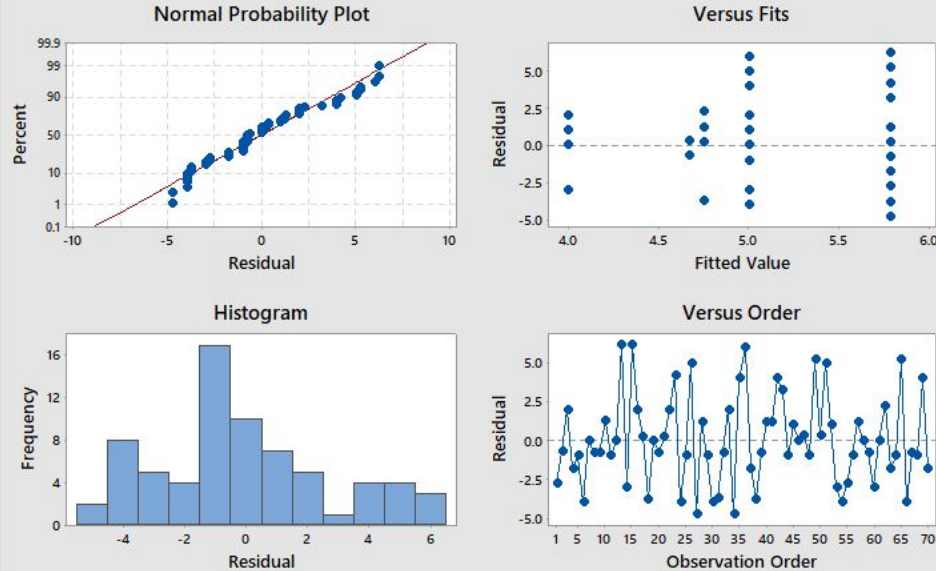
# Residual plots for linear regression

Residual Plots for Time taken to fall asleep(Min)

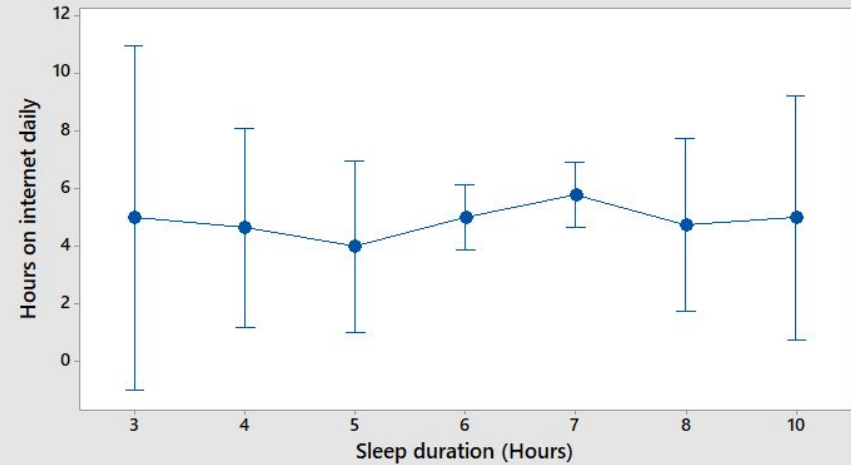


# Residual plots for ANOVA

Residual Plots for Hours on internet daily



Interval Plot of Hours on internet daily vs Sleep duration (Hours)  
95% CI for the Mean



The pooled standard deviation is used to calculate the intervals.