

STOR 665 HW 7

Brian N. White

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Problem 7

(a)

```
#load and examine the data
```

```
ergoStool <- ergoStool
```

```
str(ergoStool)
```

```
## 'data.frame': 36 obs. of 3 variables:
```

```
## $ effort : num 12 15 12 10 10 14 13 12 7 14 ...
```

```
## $ Type : Factor w/ 4 levels "T1","T2","T3",...: 1 2 3 4 1 2 3 4 1 2 ...
```

```
## $ Subject: Factor w/ 9 levels "A","B","C","D",...: 1 1 1 1 2 2 2 2 3 3 ...
```

```
summary(ergoStool)
```

```
##      effort      Type      Subject
## Min.   : 7.00   T1:9    A       : 4
## 1st Qu.: 8.00   T2:9    B       : 4
## Median :10.00   T3:9    C       : 4
## Mean   :10.25   T4:9    D       : 4
## 3rd Qu.:12.00           E       : 4
## Max.   :15.00           F       : 4
##                                (Other):12
```

```
xtabs(effort ~ Type + Subject, ergoStool)
```

```
##      Subject
## Type  A  B  C  D  E  F  G  H  I
## T1 12 10 7 7 8 9 8 7 9
## T2 15 14 14 11 11 11 12 11 13
## T3 12 13 13 10 8 11 12 8 10
## T4 10 12 9 9 7 10 11 7 8
```