

1. Introduction to Statistics with “R Studio”

Suppose we measure the weights of 10 tomatoes, in ounces.

Enter this data set, giving it the name “tomatodata”:

```
tomatodata = c( 6.3, 7.2, 6.8, 5.4, 6.5, 5.9, 6.6, 6.5, 7.1, 7.0)
```

Take the average:

```
mean(tomatodata)
```

Take the median:

```
median(tomatodata)
```

Find the standard deviation:

```
sd(tomatodata)
```

Find the largest number:

```
max(tomatodata)
```

Find the smallest number:

```
min(tomatodata)
```

Find the 30th percentile:

```
quantile(tomatodata,0.30)
```

Find the five number summary (min, 25th percentile, median, 75th percentile, & maximum):

```
quantile(tomatodata)
```

Find the interquartile range (75th percentile minus the 25th percentile)

```
IQR(tomatodata)
```

Make a histogram:

```
hist(tomatodata)
```

Make a box plot (display the five number summary):

```
boxplot(tomatodata)
```

Make a horizontal box plot:

```
boxplot(tomatodata,horizontal=TRUE)
```