MEAN

```
x <- c(12,7,3,4.2,18,2,54,-21,8,-5)
>
> # Find Mean.
> result.mean <- mean(x)
> print(result.mean)
[1] 8.22
```

MEDIAN

```
> # Create the vector.
> x <- c(12,7,3,4.2,18,2,54,-21,8,-5)
>
> # Find the median.
> median.result <- median(x)
> print(median.result)
[1] 5.6
```

MODE

```
> # Create the function.
> getmode <- function(v) {
+    uniqv <- unique(v)
+    uniqv[which.max(tabulate(match(v, uniqv)))]
+ }
>
> # Create the vector with numbers.
> v <- c(2,1,2,3,1,2,3,4,1,5,5,3,2,3)
>
> # Calculate the mode using the user function.
> result <- getmode(v)
> print(result)
[1] 2
```

IQR

```
> # creating a numerical object
> x <- c(0:10)
>
> # implementing the IQR() function
> IQR(x)
[1] 5
```

MIDRANGE

```
> # create dataframe
> data = data.frame(column1=c(12, 45, NA, NA, 67, 23, 45, 78, NA, 89),
+ column2=c(34, 41, NA, NA, 27, 23, 55, 78, NA, 73))
>
> # display
> print(data)
   column1 column2
1       12      34
2       45      41
3       NA      NA
4       NA      NA
5       67      27
6       23      23
7       45      55
8       78      78
9       NA      NA
10      89      73
>
> # find range in column1
> print(max(data$column1, na.rm=TRUE)-min(data$column1, na.rm=TRUE))
[1] 77
>
```

```
> # find range in column2
> print(max(data$column2, na.rm=TRUE)-min(data$column2, na.rm=TRUE))
[1] 55
```