| **Function** | **Description** | **Example** |
| --- | --- | --- |
| cbind(a, b, c) | Combine vectors as columns in a matrix | cbind(1:5, 6:10, 11:15) |
| rbind(a, b, c) | Combine vectors as rows in a matrix | rbind(1:5, 6:10, 11:15) |
| matrix(x, nrow, ncol, byrow) | Create a matrix from a vector x | matrix(x = 1:12, nrow = 3, ncol = 4) |
| data.frame() | Create a dataframe from named columns | data.frame("age" = c(19, 21),  sex = c("m", "f")) |

| **Function** | **Description** |
| --- | --- |
| head(x), tail(x) | Print the first few rows (or last few rows). |
| View(x) | Open the entire object in a new window |
| nrow(x), ncol(x), dim(x) | Count the number of rows and columns |
| rownames(), colnames(), names() | Show the row (or column) names |
| str(x), summary(x) | Show the structure of the dataframe (ie., dimensions and classes) and summary statistics |

*# Change name of 1st column of df to "a"*

**names**(df)[1] <- "a"

*# Return row 1*

df[1, ]

*# Return column 5*

df[, 5]

*# Rows 1:5 and column 2*

df[1:5, 2]

*# What is the mean tooth length of Guinea pigs given OJ?*

*# Step 1: Create a subsettted dataframe called oj*

oj <- **subset**(x = ToothGrowth,

subset = supp == "OJ")

*# Step 2: Calculate the mean of the len column from*

*# the new subsetted dataset*

**mean**(oj$len)

## [1] 21