R: assign the result of `5 + 7` to the variable `x`.

# Session 1 - Basics

R: define **vector**.

R: create a vector containing the numbers `1.1`, `9`, and `3.14` and store it in a variable called `z`.

R: open the built-in help page for the `c()` function

R: suppose the vector `z <- c(1, 1, 1)`. What is the result of the expression `z * 100`?

R: suppose you have two vectors

```
x <- c(1, 1, 1, 1)
  y <- c(2, 3).
```

What is the result of the expression `x + y`?

R: are the two variable names `my_sqrt` and `My_sqrt` equivalent?

R: determine which directory your R session is currently using.

R: list all the objects (variables, functions, etc.) in your **workspace**.

R: list the files in the current working directory.

R: assign the value of the current working directory to a variable called `my_current_dir`.

R: set the working directory to `my_dir`.

R: create a vector `x` containing the sequence of numbers from `1` through `20`.

R: pull up the built-in help for the colon (`:`) operator

R: create a vector `x` containing the sequence of numbers from `1` through `20` in increments of `0.5`.

R: find the number of elements of the vector `x`.

R: create a vector `s` containing the sequence of integers `1, 2, 3, ..., n` where `n` is the number of elements of another vector `x`.

R: create a vector `x` that contains 40 zeroes.

R: create a vector `x` that contains 40 zeroes followed by 40 ones and 40 twos.

R: create a vector `x` that contains 40 repeats of the pattern `0, 1, 2`.