Assignment1\_R

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# 1.0 R version

R version 3.3.1 (2016-06-21) -- "Bug in Your Hair" Copyright (C) 2016 The R Foundation for Statistical Computing Platform: x86\_64-apple-darwin13.4.0 (64-bit)

# 1.1 Calculate the cube root of 2015  
2015^(1/3)

## [1] 12.63063

# 1.2 Find the absolute value of 5.7 minus 6.8 divided by .58  
abs(5.7-6.8)/.58

## [1] 1.896552

# 1.3 Create a list of integers from 1 to 12 and call it “a”  
a = 1:12  
a

## [1] 1 2 3 4 5 6 7 8 9 10 11 12

# 1.4 Create a sequence of odd numbers from 1 to 11  
b = c(1, 3, 5, 7, 9, 11)  
b

## [1] 1 3 5 7 9 11

# 1.5 Create the same sequence in another way  
c = seq(1,11, 2)  
c

## [1] 1 3 5 7 9 11

# 1.6 Take the natural log (ln) of a  
ln.a = log(a)  
ln.a

## [1] 0.0000000 0.6931472 1.0986123 1.3862944 1.6094379 1.7917595 1.9459101  
## [8] 2.0794415 2.1972246 2.3025851 2.3978953 2.4849066

# 1.7 Compute the squares of the odd numbers from 1 to 11.  
sqrt(b)

## [1] 1.000000 1.732051 2.236068 2.645751 3.000000 3.316625

# 1.8 Use ?sd to view the help file for the sd function.   
?sd # Open up the help documentation for the std dev function.  
  
# 1.9. Create a variable Name that contains your first name.  
Name = "Tim"  
paste("My name is", Name)

## [1] "My name is Tim"

# 1.10 When you shut down R, R will ask if you want to save the workspace image. Always choose no.