David J Schlosz Assignment 1

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Median Murder rate: 6.8

Mean murder rate: 8.72745

**1)** Create the vectors ‘x’, ‘y’ and ‘z’, with values shown below in order.

5 10 15 20 25 30

-1 NA 75 3 5 8

5

**2)** Multiply the first two vectors by the z vector, and store these in new objects. Print these new vectors.

> print(xz)

[1] 25 50 75 100 125 150

> print(yz)

[1] -5.0 12.5 375.0 15.0 25.0 40.0

**3)** Replace the missing element of the y vector with the value 2.5, using the ifelse() function and print the vector.

[1] -1.0 2.5 75.0 3.0 5.0 8.0

**4)** Answer the following questions:

* Print the first 10 state abbreviations.
* mydat<-data.frame(data.set=c("AL", "AK", "AZ", "AR", "CA" ,"CO", "CT", "DE", "FL", "GA"))
* Central Tendencies:
  + What is the mean murder rate in the U.S. given these data?
    - 8.727451
  + What is the median murder rate?
    - 6.8
  + What is the mean murder rate in New England?
    - 3.55
  + Bonus: What is the mean Vcrime rate in the U.S.?