**Answer 1**: 32

> myFun<- function(x){

+ myNum <- 2

+ return(myNum\*yourFun(x))

+ }

> myNum <- 4

> myFun<- function(x){

+ myNum <- 2

+ return(myNum\*yourFun(x))

+ }

> yourFun <- function(x){

+ x\*myNum

+ }

> myFun(4)

[1] 32

**Answer 2:** X = 2, Y = 3

> a<-matrix(c(3,1,2,1),nrow=2,ncol=2)

> a

[,1] [,2]

[1,] 3 2

[2,] 1 1

> b<-matrix(c(12,5),nrow=2,ncol=1)

> b

[,1]

[1,] 12

[2,] 5

> solve(a,b)

[,1]

[1,] 2

[2,] 3

>

So X = 2, Y = 3

**Answer 3:**

solveLin = function (u=3,v=2,r=1,s=1,b1=12,b2=5)

{

a<-matrix(c(u,r,v,s),nrow=2,ncol=2)

b<-matrix(c(b1,b2),nrow=2,ncol=1)

solve(a,b)

}

mylist<-solveLin()

mylist

**Answer 4**

a: 46.46%

b: 29.46%

c: 54.34%

d1: What is the percent of people making fifty thousand dollars or less (<=50K) that are male?

35.1%

d2: In other words, what is the fraction of males making less than equal fifty thousand dallars divided by the number of all people making less than or equal to fifty thousand dollars?

64.89%

e1: Of the people with a bachelors degree, what is the percent making more than fifty thousand dollars? (i.e. (num working full time with Bachelors making more than 50 thousand) divided by (num working full time with Bachelors))

45.53%

E2: Of the people with less than 14 years of education what is the percent making more than fifty thousand dollars?

24.90%

E3: Of the people with at least 16 years of education, what percent are making more than fifty thousand dollars?

28.64%

E4: How many people have at least 16 years of education?

24798

**Answer 5**

I would like to focus on White people.

399 White Female and Male earn more than 50 K.

268 are Male.

132 are Female.

It means approximate 50% of white female can earn high income as male.