Plot height and weight of the "women" dataset. Make the title "Heights and Weights" plot(women\$weight,women\$height, main="Heights and Weights")

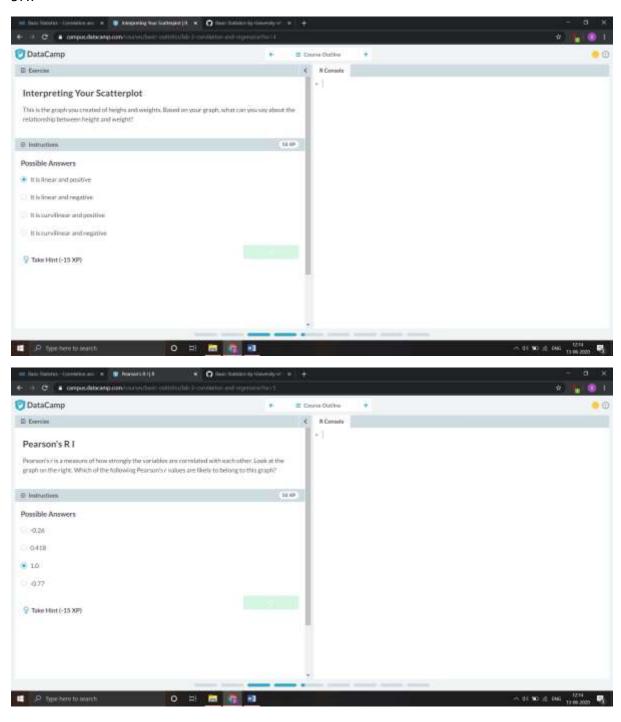
Make a contingency table of tobacco consumption and education table(smoking\$tobacco, smoking\$student)

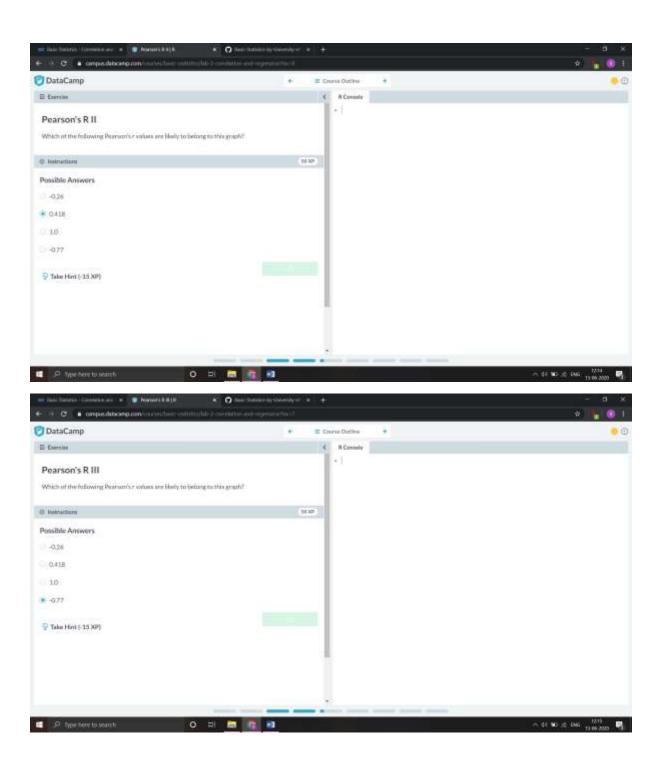
What percentage of high school students smoke 0-9g of tobacco?

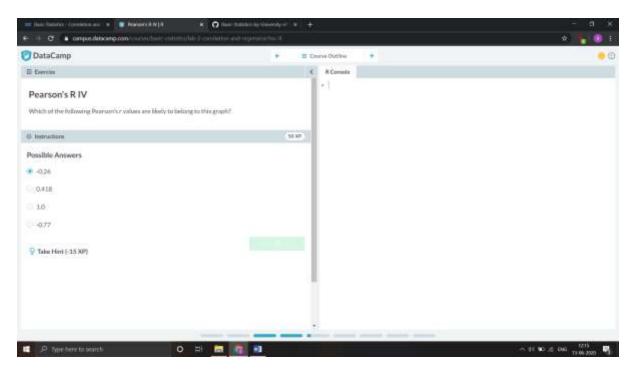
38.6

Of the students who smoke the most, what percentage are in university?

57.7







Calculate the correlation between var1 and var2

cor(var1, var2)

predicted values of y according to line 1

y1 <- c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10)

predicted values of y according to line 2

y2 <- c(2, 3, 4, 5, 6, 7, 8, 9, 10, 11)

actual values of y

y <- c(3, 2, 1, 4, 5, 10, 8, 7, 6, 9)

calculate the squared error of line 1

sum((y1 - y) ^2)

calculate the squared error of line 2

sum((y2 - y) ^2)

How prosocial would we predict someone to be when they recieve 6 units of money?

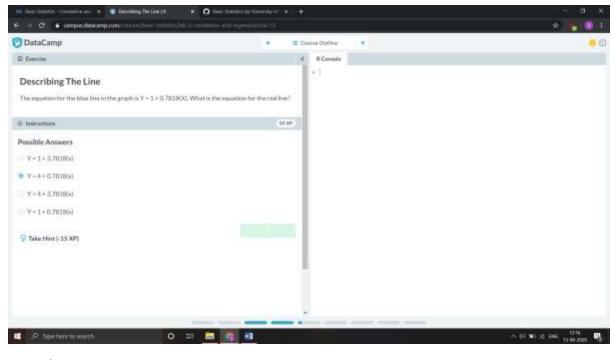
6

How prosical was the person who recieved 6 units of money in our study?

10

What is the risk taking level of a person with an extraversion level of 7?

26.1



Our data

money <- c(1,2,3,4,5,6,7,8,9,10)

prosocial <- c(3, 2, 1, 4, 5, 10, 8, 7, 6,9)

Find the regression coefficients

Im(prosocial ~ money)

Your plot

plot(money, prosocial, xlab = "Money", ylab = "Prosocial Behavior")

Store your regression coefficients in a variable called "line"

line <- Im(prosocial ~ money)

Use "line" to tell abline() to make a line on your graph

abline(line)

Your plot

plot(money, prosocial, xlab = "Money", ylab = "Prosocial Behavior")

Your regression line

line <- Im(prosocial ~ money)

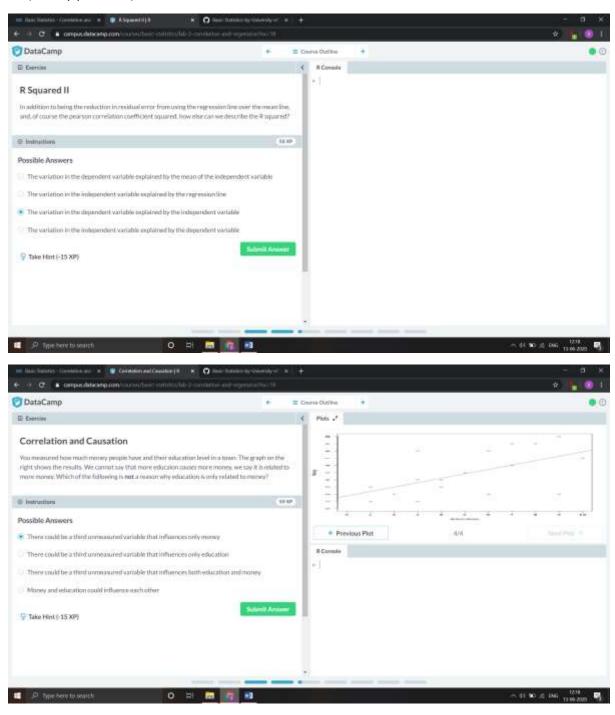
abline(line)

Add a line that shows the mean of the dependent variable

abline(mean(prosocial), 0)

Calculate the R squared of prosocial and money

cor(money,prosocial) ^2



your data

money <- c(4, 3, 2, 2, 8, 1, 1, 2, 3, 4, 5, 6, 7, 9, 9, 8, 12)

education <- c(3, 4, 6, 9, 3, 3, 1, 2, 1, 4, 5, 7, 10, 8, 7, 6, 9)lab

calculate the correlation between X and Y

cor(money, education)

save regression coefficients as object "line"

line <- Im(money ~ education)

```
# print the regression coefficients

line

# plot Y and X

plot(education, money, main="My Scatterplot")

# add the regression line

abline(line)

# Percentage of people with high money that are university educated

83.3

# Percentage of people with low money that are high schol educated

72.7

# What kind of education is linked to more money?

"university"
```