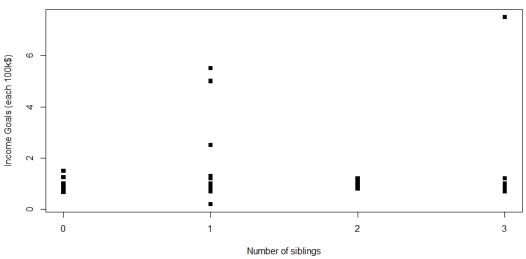
## Lab 10

1. a.



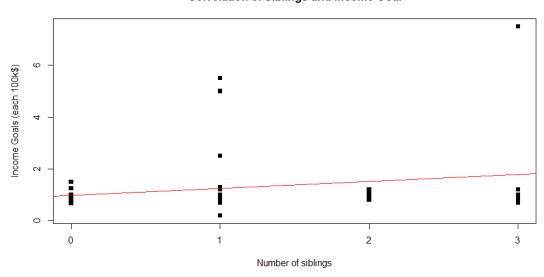


b. r = 0.1934761 P.value = 0.1782252

This indicates that the results are not statistically significant since the p.value is above significance level.

C.

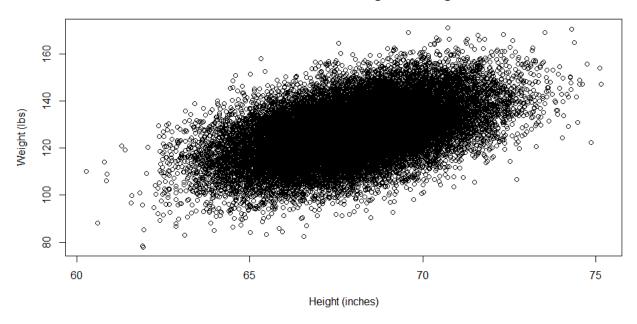
## Correlation of Siblings and Income Goal



d. Y.hat = a+b\*x= 97902 +4(26830) = 205222

2. a.

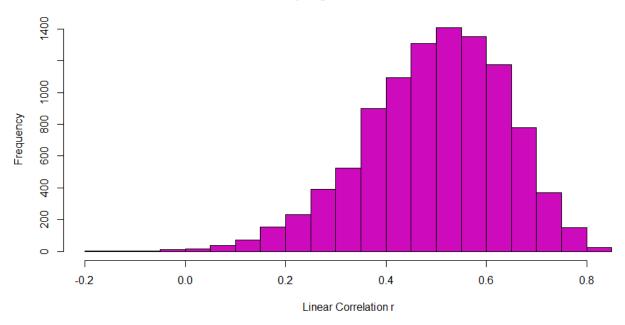
## **Correlation between Weight and Height**



b. Spearman's Rho (correlation coefficient) = 0.5028585

C.

## Sampling Distribution of r



d.0.998 = 99.8% of samples indicate a positive linear correlation

e. 0.8365 = 83.65% of samples have a non-zero population correlation

3.

a.

In the event that the age increases by one year, the predicted income goal will increase by \$9558.99

Х3

40361

c. 23-year-old student with a height of 147.5 cm and no siblings has an income goal of 108761.