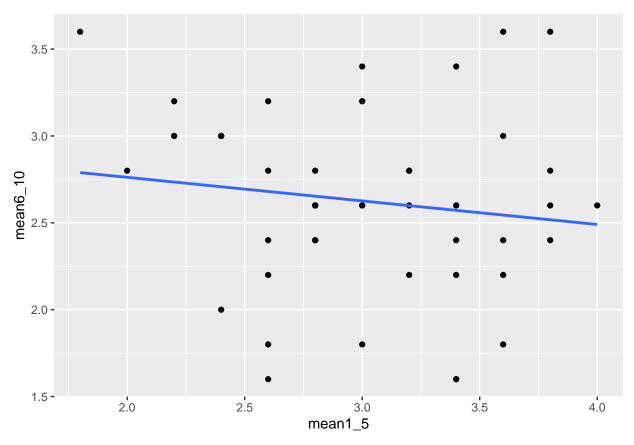
Libraries

Data Import

• calculated mean score on questions 6 - 10

```
week9_tbl <- read_csv("../data/week3.csv") %>%
              mutate(timeStart = ymd_hms(timeStart),
                     timeEnd = ymd_hms(timeEnd),
                      condition = factor(condition,
                                         levels = c("A", "B", "C"),
                                         labels = c("Block A", "Block B", "Control")),
                      gender = factor(gender,
                                      levels = c("M", "F"),
                                      labels = c("Male", "Female")),
                     mean1_5 = (q1 + q2 + q3 + q4 + q5)/5,
                     mean6_{10} = (q6 + q7 + q8 + q9 + q10)/5)
## Parsed with column specification:
## cols(
     timeStart = col_character(),
##
     timeEnd = col_datetime(format = ""),
##
     condition = col_character(),
##
     gender = col_character(),
##
     q1 = col_double(),
##
##
    q2 = col_double(),
     q3 = col_double(),
##
##
     q4 = col_double(),
##
    q5 = col_double(),
##
     q6 = col_double(),
##
    q7 = col_double(),
     q8 = col_double(),
##
    q9 = col_double(),
##
##
    q10 = col_double()
## )
  • changed timeStart and timeEnd to POSIXct format
  • created factors for condition and gender
  • calculated mean score on questions 1 - 5
```

Data Visualization



The plot shows the relationship between the mean score on questions 1 through 5 and the mean score on questions 6 through 10 where each point represents an individual and the line is the OLS regression line.

Analysis

```
r <- cor.test(week9_tbl$mean1_5, week9_tbl$mean6_10)
r

##

## Pearson's product-moment correlation
##

## data: week9_tbl$mean1_5 and week9_tbl$mean6_10
## t = -0.94464, df = 47, p-value = 0.3497
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.4022565 0.1504724
## sample estimates:
## cor
## -0.1364998</pre>
```

The correlation was -0.14 (p=0.35), which is not statistically significant.