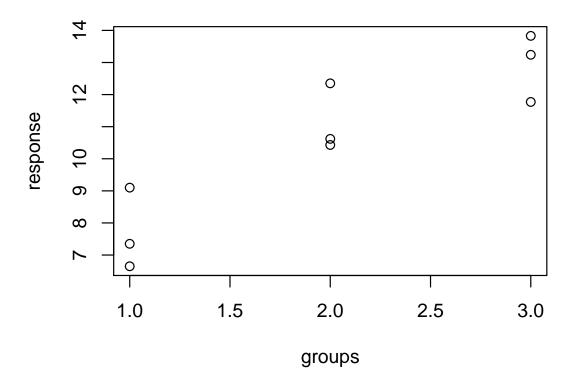
SSE Activity In Class 1-30

```
##
    groups response
## 1
        1
               7.35
## 2
          1
               9.1
## 3
          1
               6.65
## 4
          2
              10.43
## 5
          2
              10.62
          2
              12.35
## 6
## 7
          3
              13.24
## 8
         3
               11.77
## 9
               13.83
```



- 1. First, we will calculate the sum of squared errors for the single mean model.
 - (a) Start by drawing a line at the grand mean on the plot above (you will also need to calculate the grand mean).
 - (b) Now calculate the residual error for every point on the graph. You will need to use some of the data shown in the output above. Remember $e_{ij} = y_{ij} \bar{y}$
 - (c) Now square each error and add them up. This is your SSE for the single mean model
- 2. Now, find the sum of squared errors for the separate means model
 - (a) Start by drawing a short horizontal line at each of the group averages on the plot above.
 - (b) Now calculate the residual error for every point on the graph. Remember $e_{ij} = y_{ij} \bar{y}_j$
 - (c) Now square each error and add them up. This is your SSE for the separate means model