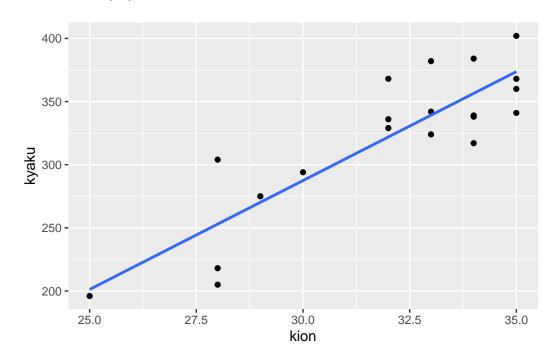
```
rm(list=ls()); gc(); gc(); #<1>
  if (!require("pacman")) install.packages("pacman") #<2>
  pacman::p_load(tidyverse, magrittr,estimatr,car,modelsummary,ggrepel,patchwork) #<3>
1
2
            pacman
(3)
  ice4_1 <- read_csv("data/ice4_1.csv")</pre>
  ice4_1
# A tibble: 20 x 3
     num kion kyaku
   <dbl> <dbl> <dbl>
 1
       1
            33
                 382
 2
       2
            33
                 324
 3
       3
            34
                 338
 4
       4
            34
                 317
 5
       5
            35
                 341
 6
                 360
       6
            35
 7
       7
            34
                 339
 8
            32
                 329
       8
 9
       9
            28
                 218
10
      10
            35
                 402
11
      11
            33
                 342
12
      12
            28
                 205
                 368
13
      13
            32
14
      14
            25
                 196
15
      15
            28
                 304
16
      16
            30
                 294
17
      17
            29
                 275
18
      18
            32
                 336
19
      19
            34
                 384
20
      20
            35
                 368
```

kion kyaku

```
g <- ggplot(data = ice4_1, #<1>
            aes(x = kion, y = kyaku) #<2>
            ) %>%
  + geom_point() %>% #<3>
  + geom_smooth(method = "lm",se=FALSE) #<4>
plot(g)
```

①
2 x y
3
4 (lm)



```
g <- ggplot(data = ice4_1, #
            aes(x = kion, y = kyaku) #x y
            ) %>%
 + geom_point() %>% #
 + geom_smooth(method = "lm",se=FALSE) %>%
 + geom_hline(aes(yintercept=320),
               color = "salmon") %>% #<1>
```

```
+ geom_abline(intercept = 150, slope = 5,
                color = "yellowgreen")#<2>
              (lm)
plot(g)
```

- 320
 5 150

