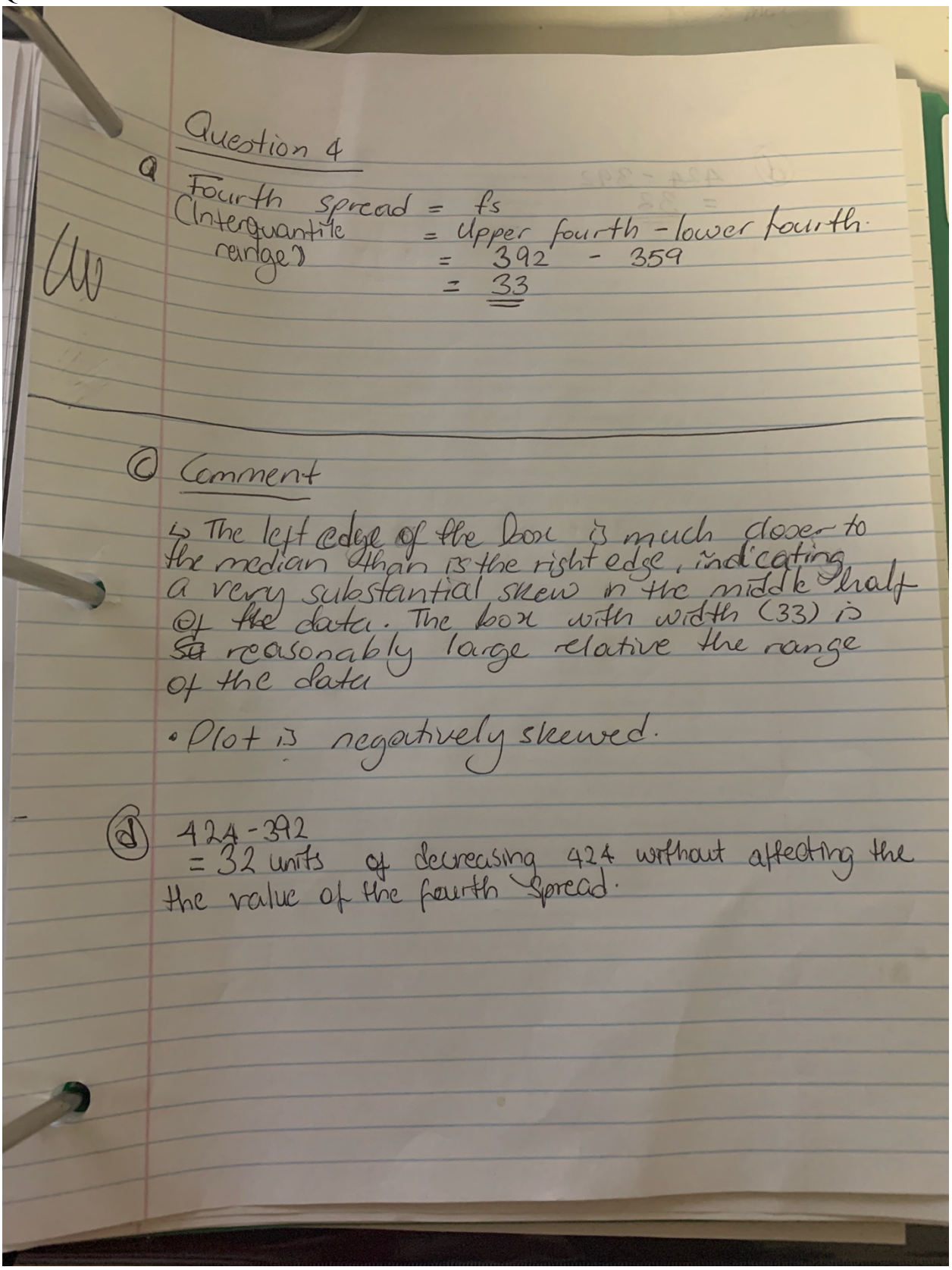
Q4:



Question 4

(a) Fourth spread = fs
(Interquantile range) = upper fourth - lower fourth.
= 392 - 359
= 33

(c) Comment

- The left edge of the box is much closer to the median than is the right edge, indicating a very substantial skew in the middle half of the data. The box with width (33) is so reasonably large relative the range of the data
- Plot is negatively skewed.

(d) 424 - 392
= 32 units of decreasing 424 without affecting the the value of the fourth spread.

Code:

```
# Question 4
# a
val = c(325, 325, 334, 339, 356, 356, 359, 359,
        363, 364, 364, 366, 369, 370, 373, 373,
        374, 375, 389, 392, 393, 394, 397, 402,
        403, 424)
#interQUatile range
valIQR = IQR(val, type = 5)
valIQR
valStem = stem(val)
valSumm = fivenum(val)
valSumm

# c
valBox = boxplot(val, main = " Question 4c", xlab = "Values", horizontal = TRUE)
# skewness
valSkewness = skewness(val)
valSkewness
```

Plot: