Question 3.51

a. [**2 pts**] The frequency table is shown in Table 1.

Table 1. Frequency table for perceived choice of agency that disposes of chemical waste. Note that 'o'=Occupational Safety and Health Administration, 'e'=Environmental Protection Agency, 'd'=Department of Transportation, 'n'=National Institutes of Health, and 'u'=unsure.

d	e	n	o	u
9	42	11	25	1

b. [**2 pts**] The percentage table is shown in Table 2.

Table 2. Percentages table for perceived choice of agency that disposes of chemical waste. Abbreviations are given in Table 1.

d	e	n	o	u	Sum
10.2	47.7	12.5	28.4	1.1	100.0

c. [**2 pts**] Most respondents thought that the Environmental Protection Agency was the agency that disposed of chemical wastes followed by the Occupational Safety and Health Administration. Relatively few people thought the Department of Transportation or National Institutes of Health disposed of chemical wastes.

Appendix – R Commands

```
library(NCStats)
setwd('C:/aaaWork/Books/IntroStats/HW/')

d2 <- read.table("3_51.txt",header=TRUE)
str(d2)
( a.tbl <- xtabs(~agency,data=d2) )
( p.tbl <- percTable(a.tbl) )
```

Notes From Professor

- In question 3.51c I noted what I considered to be the major characteristics of the results. Your major characteristics may differ from mine. However, you should NOT just re-list all of the information in the tables.

- Note how each table and figure is labeled and referred to in the answers.

- You should use no more than one decimal place for the percentages (or three decimals for the proportions).