

Exercise 3A.1

In the New Hampshire student survey data, one of the variables collected was where the student lives. Complete the table below with the appropriate summaries (as labeled at the top of the columns).

```
. tab grades  
  
Guessed |  
grades this |  
semester |      Freq.     Percent        Cum.  
-----+-----  
As & Bs |      110  
Bs & Cs |      120  
Cs & Ds |       12  
-----+-----  
Total |      242     100.00        --
```

Exercise 3A.2

In a study of asthma in minority youth in Detroit, Michigan, two pieces of information collected about the children were their asthma severity (3 levels: intermittent, mild persistent, moderate/severe persistent) and their family income. These data were obtained and summarized in the table below:

Income	Asthma Severity		
	Intermittent	Mild Persistent	Moderate/Severe Persistent
<\$15,000	71 (43%)	41 (53%)	34 (49%)
\$15,000-\$40,000	66 (40%)	27 (35%)	29 (41%)
\$40,000+	28 (17%)	10 (13%)	7 (10%)

- (a) Are the percentages in this table overall percentages, row percentages, or column percentages?
- (b) Why might the investigators have chosen to use these percentages (instead of the other options)?
- (c) If one child with intermittent asthma is randomly selected from this study, what is the probability that he has the highest level of household income (\$40,000+)?