AGS 1 Name: _____ Period: _____ Date: _____

Assignment 4.4 Relative Frequency

1. This table represents survey results from a sample of students regarding mode transportation to and from school.

	Walk	Bike	Car Pool	Bus	Total
Boys	37	47	27	122	233
Girls	38	22	53	79	192
Total	75	69	80	201	425

a. Calculate the *conditional frequencies of columns* of the table. Then provide two observation statements.

	Walk	Bike	Car Pool	Bus	Total
Boys					
Girls					
Total	100%	100%	100%	100%	100%

b. Observation 1:

Observation 2:

2. The two-way table contains survey data regarding family size and pet ownership.

	No Pets	Own one Pet	More than one pet	Total
Families of 4 or less	35	52	85	172
Families of 5 or more	15	18	10	43
Total	50	70	95	215

a. Calculate the *conditional frequencies of rows* of the table. Then provide two observation statements.

	No Pets	Own one Pet	More than one pet	Total
Families of 4 or less				100%
Families of 5 or more				100%
Total				100%

b. Observation 1:

Observation 2:

3. The two-way below contains survey data about boys and girls shoes.

	Athletic shoes	Boots	Dress Shoe	Total
Girls	21	35	60	116
Boys	50	16	10	76
Total	71	51	70	192

a. Create the *relative frequency* of the table. Then provide two observation statements.

	Athletic shoes	Boots	Dress Shoe	Total
Girls				
Boys				
Total				100%

b. Observation 1:

Observation 2:

Refresh your memory:

4. Consider the data: 23, 24, 25, 20, 25, 29, 24, 25, 30

a. Determine the mean, mode, median, and range of the data.

b. For the set of data, create a box plot.