

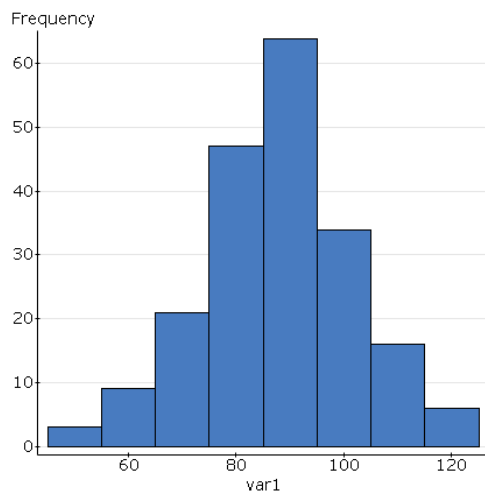
## Getting Ready for the Midterm – Chapter 2

### Practice Problems – Answer Key

#### Frequency Distribution to Relative Frequency Distribution or Histogram

1) The following frequency distribution shows the number of rounds played by 200 professional golfers. Construct a histogram and a relative frequency distribution.

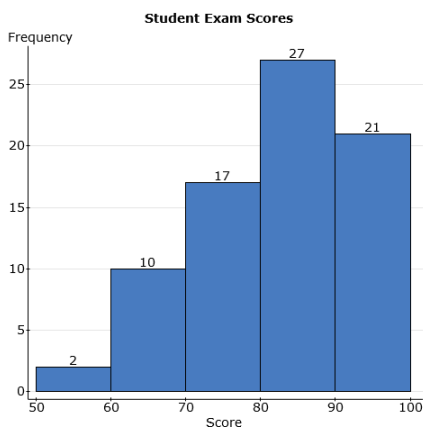
Number of Rounds	Frequency	<i>Relative Frequency</i>
45 to 55	3	<b>0.015</b>
55 to 65	9	<b>0.045</b>
65 to 75	21	<b>0.105</b>
75 to 85	47	<b>0.235</b>
85 to 95	64	<b>0.32</b>
95 to 105	34	<b>0.17</b>
105 to 115	16	<b>0.08</b>
115 to 125	6	<b>0.03</b>



*Note: You cannot create the histogram directly in StatCrunch. Start with a bar graph, then by hand be sure to draw it with the bars touching and the x-axis labeled numerically.*

#### Histogram to Frequency Distribution

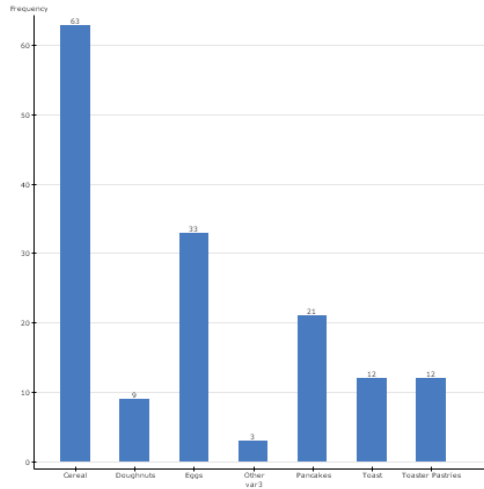
2) Use the given histogram of student scores to create a frequency distribution.



Score	Frequency
50 to 60	2
60 to 70	10
70 to 80	17
80 to 90	27
90 to 100	21

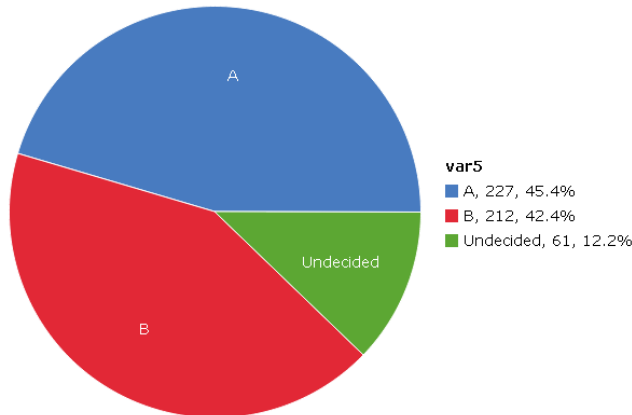
### Bar Graph

3) A survey of 150 fourth- and fifth-graders about their favorite breakfast food produced the following results: Cereal (63), Eggs (33), Pancakes (21), Toast (12), Doughnuts (9), Toaster Pastries (12), Other (3). Construct a bar graph for the data.



### Pie Chart

4) A poll of 500 potential Democratic primary voters in New Hampshire revealed that 227 preferred candidate A, 212 preferred candidate B, and 61 were undecided. Construct a pie chart showing the percentages for each candidate, as well as undecided.



## Frequency Distribution and Histogram

5) Here are the ages of the Presidents of the United States at inauguration (from George Washington through Donald Trump). Construct a frequency distribution and a histogram for these ages.

Let the first class begin at 40, and use a class width (or binwidth) of 5.

57 61 57 57 58 57 61 54 68 51 49 64 50 48 65  
 52 56 46 54 49 51 47 55 55 54 42 51 56 55 51  
 54 51 60 62 43 55 56 61 52 69 64 46 54 47 70

Age	Frequency
40 to 45	2
45 to 50	7
50 to 55	13
55 to 60	12
60 to 65	7
65 to 70	3
70 to 75	1

