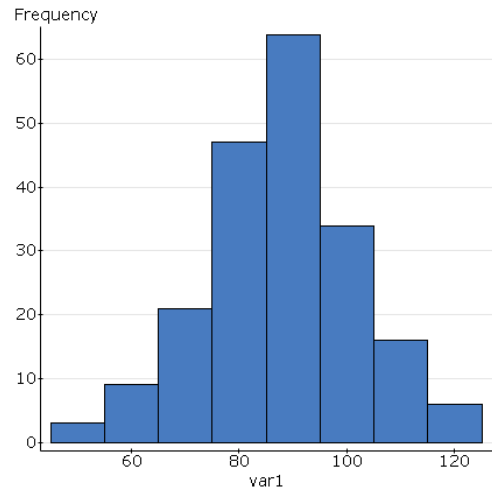


## Getting Ready for the Midterm – Chapter 2

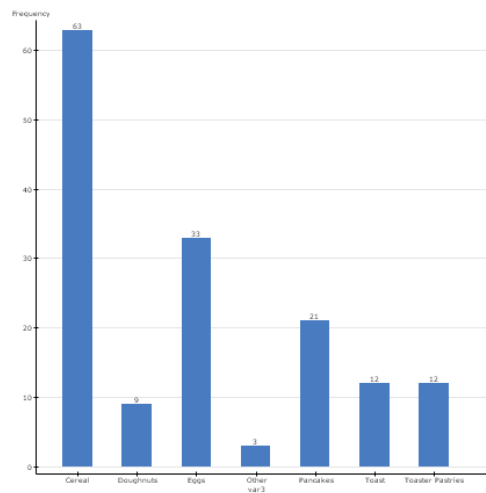
### Practice Problems – Answer Key

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

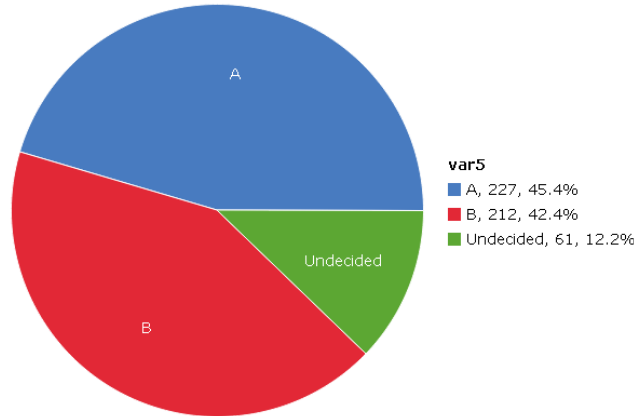
Number of Rounds	Frequency	<i>Relative Frequency</i>
45 to 54	3	<b>0.015</b>
55 to 64	9	<b>0.045</b>
65 to 74	21	<b>0.105</b>
75 to 84	47	<b>0.235</b>
85 to 94	64	<b>0.32</b>
95 to 104	34	<b>0.17</b>
105 to 114	16	<b>0.08</b>
115 to 124	6	<b>0.03</b>



2) 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.



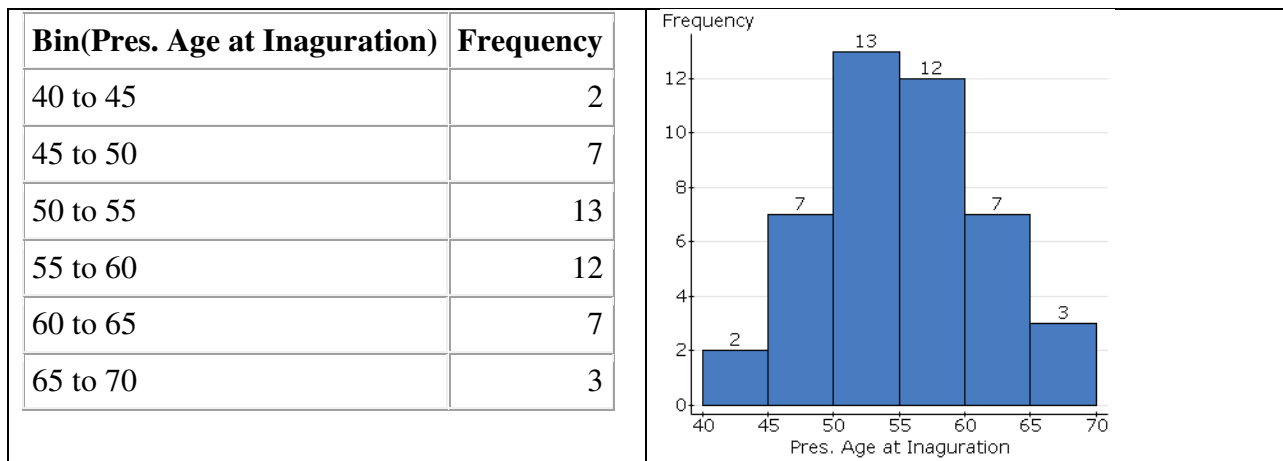
3) A poll of 500 potential Democratic primary voters in New Hampshire revealed that 227 preferred candidate A, 212 preferred candidate B, and 61 were undecided. Construct a pie chart showing the percentages for each candidate, as well as undecided.



4) Here are the ages of the Presidents of the United States at inauguration (from George Washington through Barack Obama). 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



5) Create a stem-and-leaf display for the number of first downs gained by the 32 NFL teams in the last two weeks of the season.

36	35	28	42	47	28	46	38
30	22	22	23	32	31	53	29
42	38	14	44	43	45	34	36
42	30	42	52	14	35	46	51

Decimal point is 1 digit(s) to the right of the colon.

1 : 44

1 :

2 : 223

2 : 889

3 : 00124

3 : 556688

4 : 222234

4 : 5667

5 : 123

6) Based on the results of problems 4 and 5, describe the shape of those two distributions.

4: Bell shaped, symmetric

5: Slightly left skewed