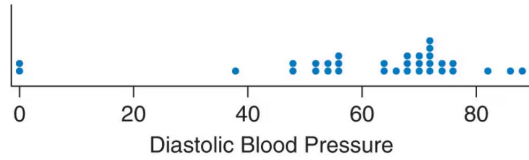


## Worksheet – Sections 2.1-2.2

1) The dotplot shows the diastolic blood pressure of 33 people.



Many sources say a healthy diastolic blood pressure should be 80 or less.

a) How many of the 33 people had diastolic blood pressures in the unhealthy range?

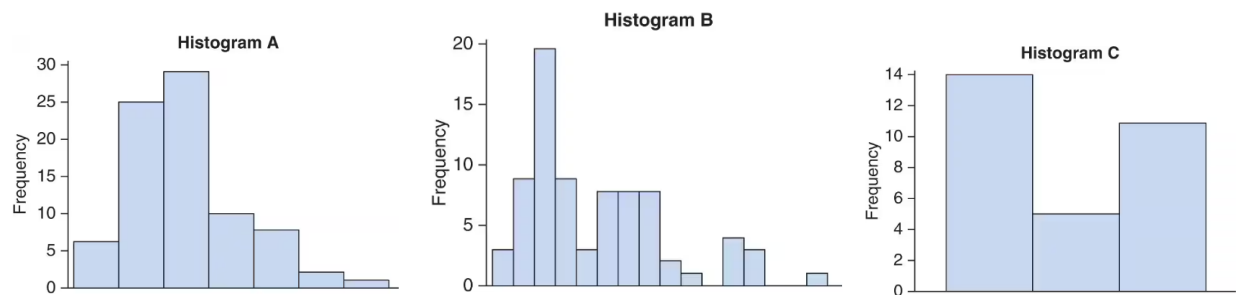
b) What percentage of the 33 people had diastolic blood pressures in the unhealthy range?

2) Match each of the three histograms to the correct situation.

(1) Assessed value of a representative collection of houses in a city

(2) Number of bedrooms in the houses

(3) Height of house (in stories) for houses in a region that allows up to three stories but not more.



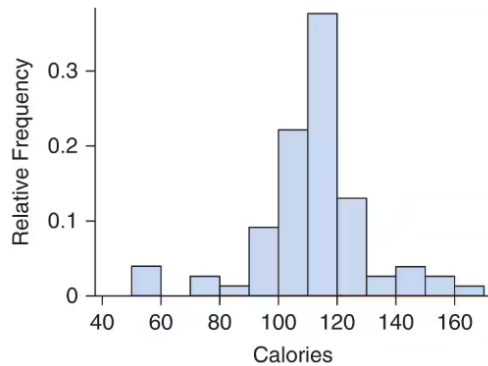
3) What shape would you expect to see in a histogram of the following data sets?

a) Student scores on an easy exam.

b) Student scores on a difficult exam.

- c) The ages of patrons who visit an amusement park.
- d) The last digit of Social Security numbers of students.

4) The histogram shows the number of calories in a sample of breakfast cereals.



- a) What is the bin width of this histogram?
- b) Is this histogram unimodal or bimodal?
- c) Is it possible to calculate, approximately, how many cereals contained more than 140 calories from this graph? If so, determine how many. If not, explain what additional information is needed to estimate this value.

5) The table shows prices of 50 college textbooks in a community college bookstore, rounded to the nearest dollar. Use StatCrunch to make a histogram the distribution of the data. Describe the shape of the distribution of prices: shape, outliers, center, spread. Find the percentage of books that cost less than \$75.

|     |    |    |     |     |     |     |    |     |    |
|-----|----|----|-----|-----|-----|-----|----|-----|----|
| 76  | 19 | 83 | 45  | 88  | 70  | 62  | 84 | 85  | 87 |
| 86  | 37 | 88 | 45  | 75  | 83  | 126 | 56 | 30  | 33 |
| 26  | 88 | 30 | 30  | 25  | 89  | 32  | 48 | 66  | 47 |
| 115 | 36 | 30 | 60  | 36  | 140 | 47  | 82 | 138 | 50 |
| 126 | 66 | 45 | 107 | 112 | 12  | 97  | 96 | 78  | 60 |