

Visualizing Data

Draw a dot plot for each data set.

1) Games per World Series

4 4 4 4 5 5 5 6
6 7 7 7 7 7 7 7
7

2)

Age Assumed Office

Senator	Age	Senator	Age	Senator	Age	Senator	Age	Senator	Age
Mary Landrieu	41	Jon Tester	50	Mike Enzi	52	Barbara Boxer	52	Lamar Alexander	62
Mike Crapo	47	Tim Johnson	50	Dick Durbin	52	Sherrod Brown	54	Richard Blumenthal	64
John Cornyn	50	Jeff Sessions	50	Bob Menendez	52	John Barrasso	54	Angus King	68

Draw a stem-and-leaf plot for each data set.

3) Annual Precipitation (Inches)

9.2 15.6 15.8 22.4 26.4
34 34.4 34.8 38.8 39.6
45.2 50.4 51.6 55.6 55.6
56.6 69.2

4)

Per Capita Income

Country	US \$	Country	US \$	Country	US \$	Country	US \$
Central African Rep.	604	Uzbekistan	5,167	Maldives	11,654	Chile	21,911
Djibouti	2,998	Rep. of Congo	5,867	South Africa	12,504	Japan	36,315
Yemen	3,958	Mongolia	9,433	Botswana	15,675	Belgium	40,338
Laos	4,812	Grenada	11,498	Gabon	19,260	United Arab Emirates	58,042

Draw a box-and-whisker plot for each data set.

5) Test Scores

37	38	39	44	44	45	46
47	47	47	47	48	51	52
52	53	54				

6) Life Expectancy

State	Years	State	Years
Arkansas	74.2	Wisconsin	79.8
New Mexico	77.7	Washington	80.3
Alabama	78.1	Colorado	80.9
Louisiana	78.2	Indiana	81.3
Wyoming	78.4	Nevada	81.3
Kansas	78.6	Pennsylvania	81.6
Maine	79.1	Florida	81.7
Hawaii	79.7	Massachusetts	83.8

Worksheet on Histogram:

7. The data in the table show the number of pedestrians killed in one year in a large city, by age:

AGE	FREQUENCY
0 - 9	84
10 - 19	28
20 - 29	9
30 - 39	24
40 - 49	19
50 - 59	43
60 - 69	63
70 - 79	58
80 - 89	38

- A) Construct a histogram for the data.
B) Comment on the shape of the graph and give possible reasons for it.

8. One year in December the number of hours of bright sunshine recorded at 36 selected stations is as follows:

16 25 41 20 35 20 16 8 38 23 25 38 41 34 24 39 47 45 17 42 44 47 51
35 37 51 39 14 14 40 44 50 40 31 22

- A) choose an interval and create a frequency table for the data
B) use the grouped data to create a histogram
C) choose a different interval and repeat a and b
D) compare the two histogram and explain which they feel is more useful

9. Construct a histogram to represent the following data. The number of hours of television watched in a week:

2 2 2 3 3.5 3.5 4 4 5.5 5.5 5.5 6 8 8.5 8.5 8.5 8.5 8.5 8.5 9 9 9 9.5 12.5