

Extra Credit: Measures of Center and Spread

Find the mode, median, lower quartile, and upper quartile for each data set.

1) Age at First Job

- 11 12 12 13 13 14 15
- 15 15 15 17 17 18 18
- 19 19 21

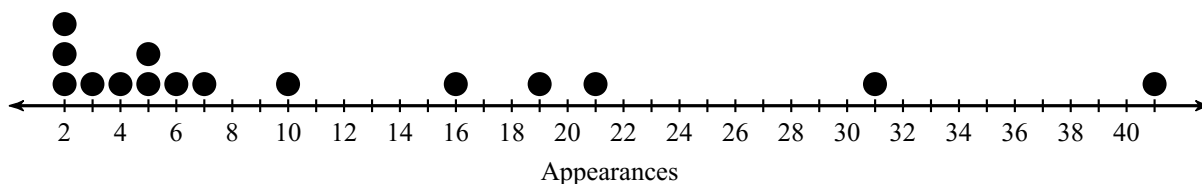
2) Games per World Series

- 4 4 4 5 5 5 7 7
- 7 7 7 7 7 7 7

3) Shoe Size

- 4 6 6 7 8 8.5 8.5
- 8.5 9 9 9 9 9.5 9.5
- 10

4) Appearances in Basketball Tournament



5) Games per World Series

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

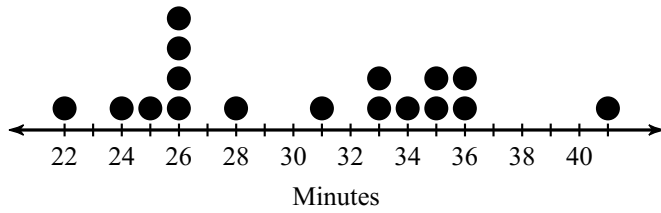
6) Educational Attainment by US State

State	% Bachelor's Degree	State	% Bachelor's Degree	State	% Bachelor's Degree
Nevada	21.8	Missouri	25.2	Utah	28.5
Indiana	22.5	Arizona	25.6	Kansas	29.5
Ohio	24.1	Alaska	26.6	Minnesota	31.5
South Carolina	24.3	Maine	26.9	Wyoming	34.5
Iowa	25.1	Nebraska	27.4	Colorado	35.9
South Dakota	25.1				

7) Average Time to Maturity

Plant	Days	Plant	Days	Plant	Days	Plant	Days	Plant	Days
Arugula	35	Beet	59	Broccoli	71	Sweet Potato	90	Garlic	120
Cabbage	50	Cauliflower	62	Jalapeno Pepper	75	Radicchio	90	Pumpkin	120
Cucumber	58	Collards	62	Brussel Sprouts	90	Parsnip	105	Asparagus	730

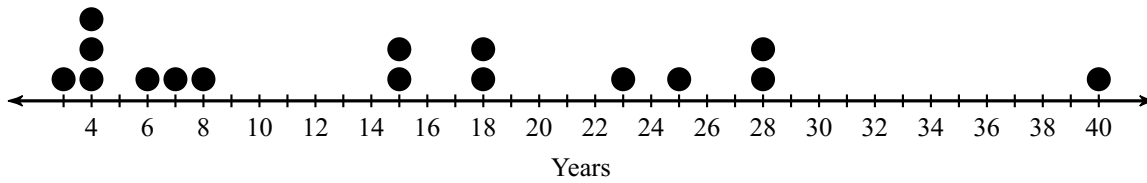
8) Time to Run 5km



9) Hits in a Round of Hacky Sack

0	2	2	3	3	4	5	5
5	6	6	7	9	10	15	18

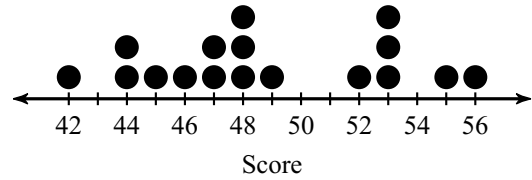
10) Average Lifespan of Certain Animals



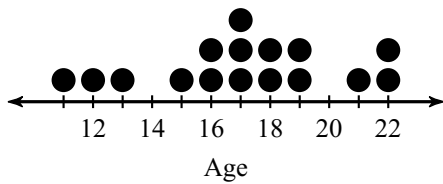
11) Hits in a Round of Hacky Sack

1	2	4	5	5	5	6	7
7	8	8	9	12	12	17	

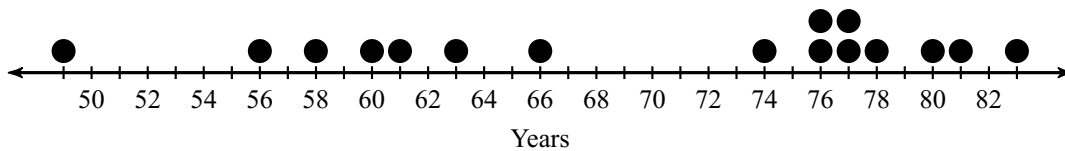
12) Test Scores



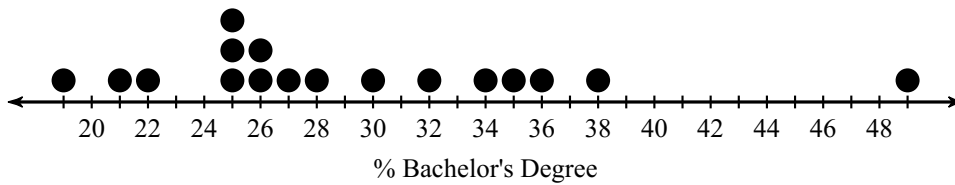
13) Age at First Job



14) Life Expectancy by Country



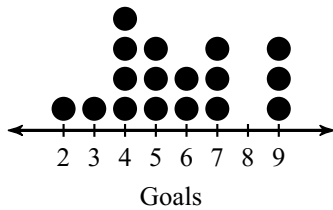
15) Educational Attainment by US State



16) Average Time to Maturity

Plant	Days	Plant	Days	Plant	Days	Plant	Days	Plant	Days
Arugula	35	Red Lettuce	50	Grape Tomato	65	French Bean	75	Gooseneck Gourd	120
Mesclun	40	Kohlrabi	55	Carrots	70	Iceburg Lettuce	85	Pumpkin	120
Endive	47	Turnip	55	Broccoli	71	Leek	100	Scallion	120
Cabbage	50	Cucumber	58						

17) Goals in a Hockey Game



18) Basketball Tournament

School	Appearances	School	Appearances	School	Appearances
Texas-Arlington	1	Niagara	3	Miami (FL)	7
Western Carolina	1	Georgia State	3	Maryland	24
Trinity	1	San Diego	4	Oklahoma State	27
Tufts	1	UNC-Wilmington	4	Arkansas	30
South Dakota State	2	Detroit	6	Kentucky	54

19) Shoe Size

4 4.5 5.5 6 6.5 7.5 7.5
 8 8 8 8 8.5 8.5 9
 9

20) # Words in Book Titles

1 1 2 2 2 2 2 2
 3 3 3 3 3 4 4 5
 5

Find the mean and sample standard deviation for each data set.

21) Age at First Job

12 13 15 15 15 15 16
 16 17 18 19

22) Birth Rate

Country	Births/woman
Portugal	1.52
Brazil	1.69
New Zealand	2.05
Cook Islands	2.27
Bangladesh	2.45
Haiti	2.79
Tuvalu	3.03
Rwanda	4.62
Benin	5.04

23) Campers at National Parks

Park	Tent Campers
Dry Tortugas	2,697
Katmai	2,752
Bighorn Canyon	2,956
Golden Gate	3,333
New River Gorge River	6,589
Everglades	8,679
Prince William Forest Park	8,791
Badlands	8,878
Bryce Canyon	35,966

24) Minutes to Run 5km

19	19.4	19.8	25.7	26	28
32.9	34.1	36.8			

25) Hours Slept

6.25	6.25	6.5	6.5	7	7
7.25	7.25	8.25	8.75		

26) Mountain Heights

Name	Feet	Name	Feet	Name	Feet	Name	Feet
Putha Hiunchuli	23,773	Teram Kangri III	24,219	Gangkhar Puensum	24,836	K2	28,251
Baltistan Peak	23,891	Ghent Kangri	24,281	Dhaulagiri II	25,430	Mount Everest	29,029
Chongtar	23,999	Momhil Sar	24,324	Gasherbrum IV	26,024		

27) Life Expectancy

Country	Years	Country	Years	Country	Years	Country	Years	Country	Years
Togo	57	Haiti	63	São Tomé and Príncipe	72	Dominica	77.5	San Marino	83.5
Cameroon	61.5	Bangladesh	70	Croatia	77.5	Australia	83	Japan	83.65

28) Annual Precipitation (Inches)

12.4	14.8	23	24.4	32.6
53.2	55.8	59.8	68.2	

29) Annual Household Income

8,000	17,250	18,000	23,700
24,700	26,900	33,800	38,750
40,650			

30) Injuries Due to Distracted Driving per Month

4,813	5,664	6,058	6,609	7,145
7,938	8,438	9,467	9,579	