

For problems 1 - 4: (a) Construct a box-and-whisker plot for the data set. (b) Between which two values is the middle 50% of the data? (c) Which measure of center is most appropriate and why? (d) Which measure of spread is most appropriate and why?

1) Melting Point

Substance	°C	Substance	°C
Potassium	63.4	Plutonium	639.4
Cobalt	1,495	Glycerol	17.8
Sulphur	115.2	Iron	1,538
Nickel	1,455	Carbon	3,550
Argon	189.2		

2) Per Capita Income

Country	US \$	Country	US \$
Turkmenistan	14,001	Egypt	11,085
Jordan	11,782	Montenegro	14,318
Sierra Leone	1,927	Nicaragua	4,571
Honduras	4,591	Bulgaria	15,941
Cape Verde	6,412	East Timor	2,242

3) Age at First Job

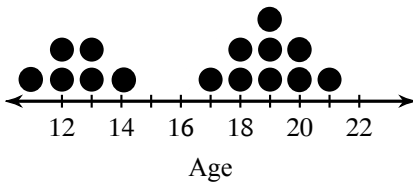
17 23 17 16 17 16 15
18 13 20

4) Annual Precipitation (Inches)

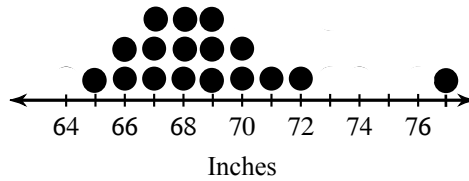
64.4 49.2 55.4 42.2 66.8
11.4 65.8 44.8 54.6 27.2
35.2

For problems 5 - 8: Describe the distribution - SHAPE, CENTER, SPREAD, and OUTLIERS

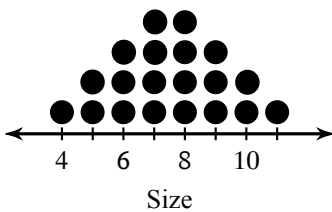
5) Age at First Job



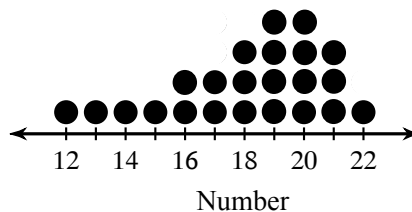
6) Adult Male Heights



7) Shoe Size



8) Number of Radishes



Find the median, mean, interquartile range, and sample standard deviation for each data set.

9) Monthly Revenue

92,000 65,980 57,070 56,840
50,260 67,950 51,740 75,230
65,470 88,120

10) Single Family Home Prices

492,600 536,300 501,800 533,700
511,100 521,100 542,900 543,900
525,600 540,900 506,800

11) Hours Slept

5.25 8 6.25 5.75 6.75
7.5 6.25 7.75 6.25 6.25

12) Annual Precipitation (Inches)

26.8 68.8 31.4 57.2 29.2 32
38.2 25.6 35