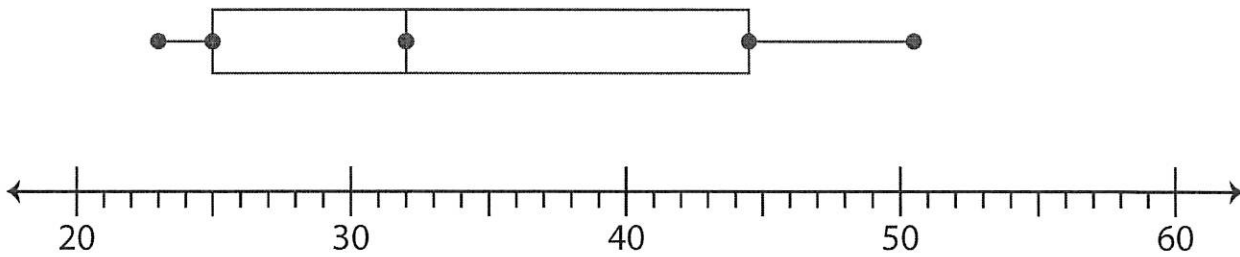


Make and Interpret the Plot

1) The below tabulation shows the length of eight bones (in inches) in human beings.

Bone	Femur	Ulna	Humerus	8th rib	Radius	Tibia	7th rib	Fibula
Length (in inches)	50.5	27.5	36.5	23	26	49	24	40

Make a box-and-whisker plot.



Answer the following questions.

- 1) Which is the longest bone? **femur**

- 2) What is the first quartile of the given data? **25**

- 3) What is the median of the given data? **32**

- 4) What is the length of the shortest bone? **23 inches**

- 5) What is the third quartile? **44.5**

Five-Number Summary

Level 1: S1

Write the five-number summary for each set of data.

1) 42, 58, 67, 55, 40, 69, 66, 51, 46, 48, 68

Minimum : 40

Q_1 : 46

Q_2 : 55

Q_3 : 67

Maximum : 69

2) 14, 11, 8, 1, 23, 20, 17, 5, 19, 10, 12, 22

Minimum : 1

Q_1 : 9

Q_2 : 13

Q_3 : 19.5

Maximum : 23

3) 107, 92, 111, 119, 99, 100, 89, 94, 125, 93

Minimum : 89

Q_1 : 93

Q_2 : 99.5

Q_3 : 111

Maximum : 125

4) 72, 60, 64, 75, 79, 63, 70, 61, 78

Minimum : 60

Q_1 : 62

Q_2 : 70

Q_3 : 76.5

Maximum : 79

5) 21, 4, 18, 9, 25, 16, 27, 30, 33, 15, 31

Minimum : 4

Q_1 : 15

Q_2 : 21

Q_3 : 30

Maximum : 33

6) 134, 47, 122, 113, 49, 56, 102, 93, 62

Minimum : 47

Q_1 : 52.5

Q_2 : 93

Q_3 : 117.5

Maximum : 134

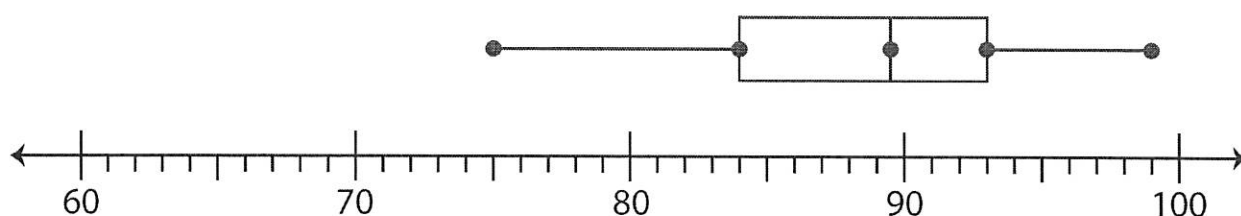
Box-and-Whisker Plot

- 1) The teacher recorded the math scores of top ten students in grade V. Their scores are as follows.

86, 92, 75, 81, 93, 99, 89, 90, 84, 93

Make a box-and-whisker plot.

Min: 75, Q_1 : 84, Q_2 : 89.5, Q_3 : 93, Max: 99

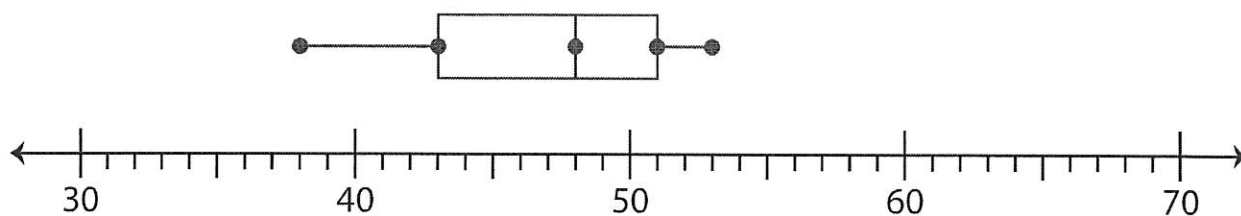


- 2) Eleven staff from a university visited a museum. The below given data shows their ages noted by a volunteer of the museum to issue tickets.

42, 46, 50, 52, 53, 50, 51, 38, 48, 47, 43

Make a box-and-whisker plot.

Min: 38, Q_1 : 43, Q_2 : 48, Q_3 : 51, Max: 53

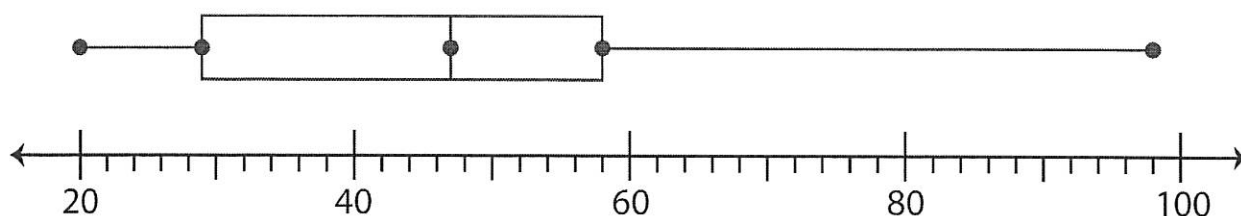


- 3) The figures shown below are the sales of twelve vegetables (in pounds) at a supermarket in a day.

24, 34, 98, 44, 72, 56, 52, 50, 38, 22, 20, 60

Make a box-and-whisker plot.

Min: 20, Q_1 : 29, Q_2 : 47, Q_3 : 58, Max: 98



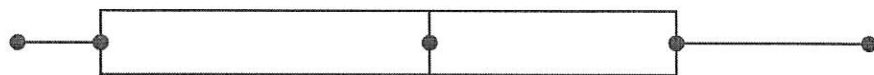
Box-and-Whisker Plot

Make box-and-whisker plots for the given data.

- 1) 17, 29, 32, 9, 30, 14, 8, 39, 11, 32, 23

Minimum : 8 Maximum : 39

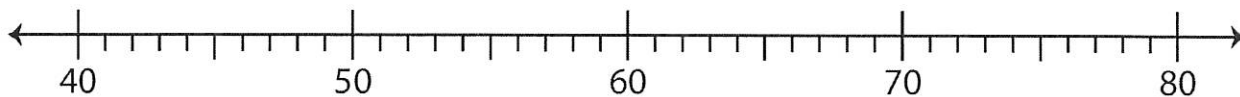
Q_1 : 11 Q_2 : 23 Q_3 : 32



- 2) 58, 67, 44, 72, 51, 42, 60, 46, 69

Minimum : 42 Maximum : 72

Q_1 : 45 Q_2 : 58 Q_3 : 68



- 3) 67, 100, 94, 77, 80, 62, 79, 68, 95, 86, 73, 84

Minimum : 62 Maximum : 100

Q_1 : 70.5 Q_2 : 79.5 Q_3 : 90

