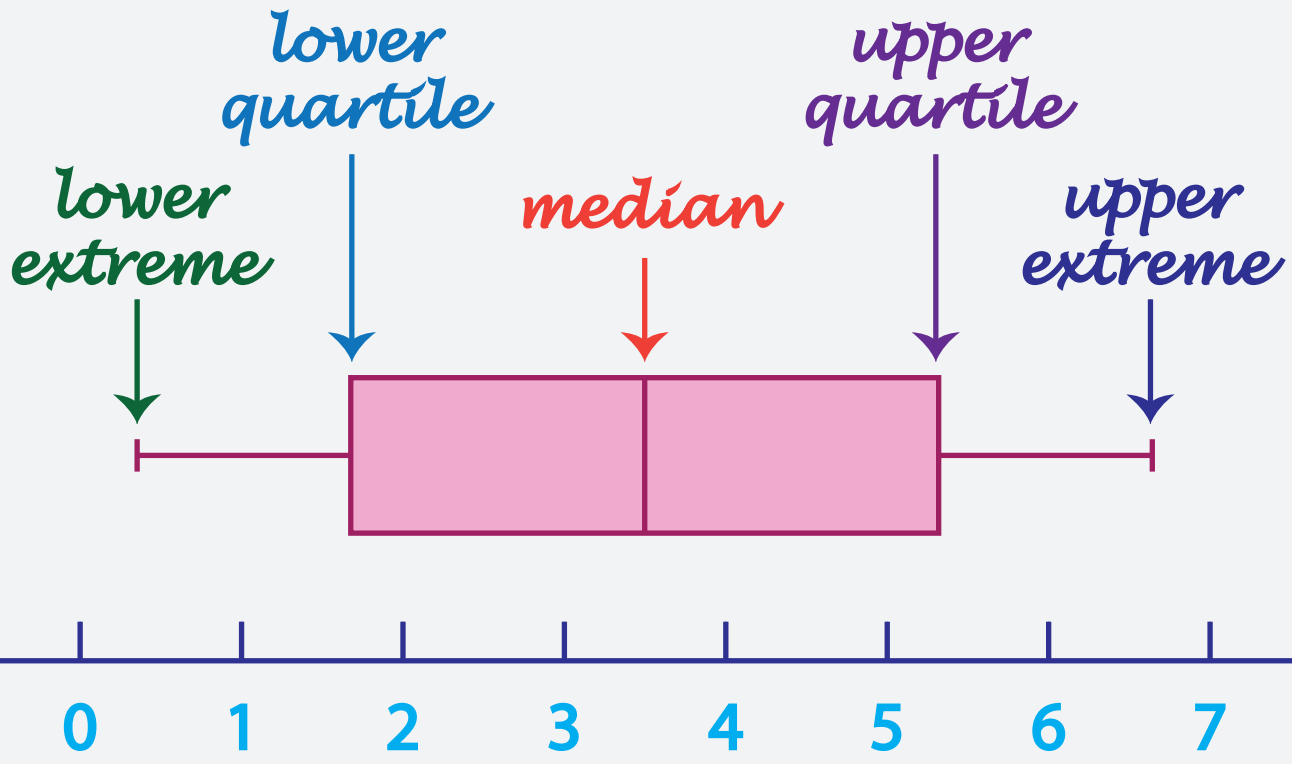
Statistics

6th Grade



$IQR = Q_2 - Q_1$

IQR – Interquartile Range

Q_1 – lower quartile

Q_2 – upper quartile

$$\text{Average} = \frac{\text{Sum of all observations}}{\text{Number of observations}}$$

Workbook 1

MathWorksheets4Kids.com

Mean

E

Calculate the mean for the following data points:

1) 3, 6, 2, 5 Mean =	2) 8, 5, 6, 5 Mean =	3) 9, 0, 4, 7 Mean =
4) 4, 5, 9 Mean =	5) 9, 5 Mean =	6) 8, 7, 9, 8 Mean =
7) 4, 8, 5, 3 Mean =	8) 7, 0, 5 Mean =	9) 2, 5, 8, 1 Mean =
10) 7, 4, 5, 8 Mean =	11) 6, 1, 8 Mean =	12) 7, 2, 6, 9 Mean =
13) 1, 5 Mean =	14) 3, 2, 5, 6 Mean =	15) 4, 3, 5 Mean =
16) 5, 3, 8, 4 Mean =	17) 9, 5, 8, 6 Mean =	18) 3, 8, 0, 5 Mean =
19) 7, 2, 5, 2 Mean =	20) 9, 6, 9 Mean =	21) 1, 4, 5, 2 Mean =
22) 2, 5, 1, 4 Mean =	23) 7, 9, 4, 8 Mean =	24) 9, 7 Mean =

Mean

M

Calculate the mean for the following data points:

1) 7, 5, 4, 3, 2, 3 Mean =	2) 9, 5, 8, 6 Mean =
3) 2, 5, 4, 3, 1 Mean =	4) 9, 6, 8, 5, 2 Mean =
5) 5, 4, 1, 2, 7, 5 Mean =	6) 8, 3, 2, 5, 7 Mean =
7) 3, 5, 2, 1, 4 Mean =	8) 2, 5, 4, 5 Mean =
9) 9, 6, 7, 2 Mean =	10) 6, 3, 5, 2, 4 Mean =
11) 7, 9, 2, 1, 3, 8 Mean =	12) 4, 8, 7, 6, 5 Mean =
13) 2, 4, 1, 5 Mean =	14) 9, 5, 6, 8, 5, 9 Mean =
15) 5, 2, 6, 4, 3 Mean =	16) 2, 7, 5, 3, 8, 5 Mean =
17) 6, 5, 2, 7 Mean =	18) 1, 4, 5, 3, 2 Mean =

Mean

E

Calculate the mean for the following data points:

1) 15, 7, 22, 12 Mean =	2) 24, 36, 29, 31 Mean =	3) 45, 52, 47 Mean =
4) 93, 85 Mean =	5) 54, 63, 44, 51 Mean =	6) 49, 53 Mean =
7) 34, 27, 41 Mean =	8) 55, 62, 57, 66 Mean =	9) 18, 6, 15 Mean =
10) 24, 13, 27, 8 Mean =	11) 35, 41, 38, 46 Mean =	12) 63, 72, 67, 70 Mean =
13) 17, 9, 7 Mean =	14) 25, 32, 28, 39 Mean =	15) 87, 92, 85 Mean =
16) 11, 14, 9, 18 Mean =	17) 43, 51 Mean =	18) 76, 82, 88 Mean =
19) 46, 38, 44, 36 Mean =	20) 64, 58, 67 Mean =	21) 36, 42 Mean =
22) 24, 16, 7, 13 Mean =	23) 57, 44, 52 Mean =	24) 29, 42, 31, 46 Mean =

Pages 4 to 12 are available only for members.

Subscribe to unlock 200+ math workbooks and 40,000+ worksheets in all subjects.

Scroll down for additional free pages.

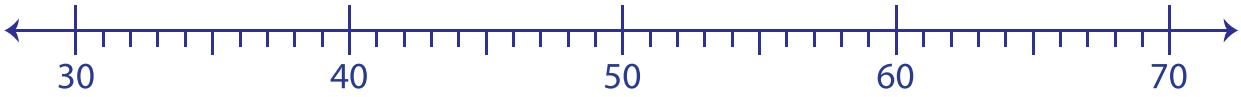
Box-and-Whisker Plot

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

1) 55, 62.5, 39.1, 45, 54.3, 61, 37, 40, 68, 42.7, 59, 48, 50, 33

Minimum : _____ Maximum : _____

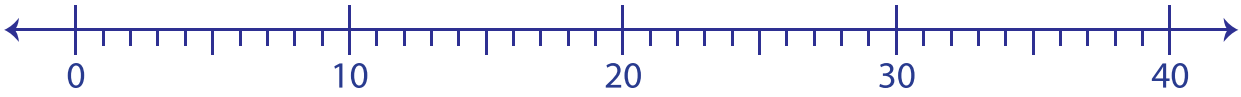
Q_1 : _____ Q_2 : _____ Q_3 : _____



2) 21, 12, 9, 22, 17, 34, 27, 19, 7, 17, 24, 11, 13

Minimum : _____ Maximum : _____

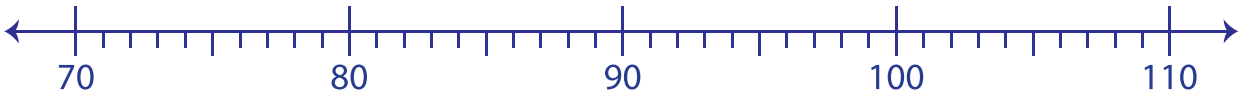
Q_1 : _____ Q_2 : _____ Q_3 : _____



3) 83.7, 98, 73, 105, 92, 71.5, 86, 97, 78, 90.5, 109, 88, 95.8, 79, 98

Minimum : _____ Maximum : _____

Q_1 : _____ Q_2 : _____ Q_3 : _____



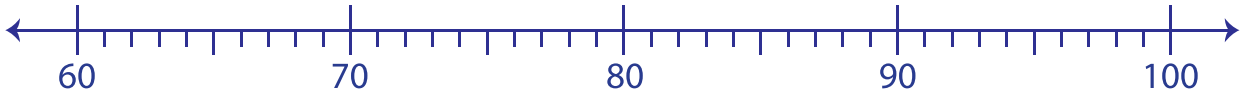
Box-and-Whisker Plot

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 : _____, Q_1 : _____, Q_2 : _____, Q_3 : _____, Max : _____

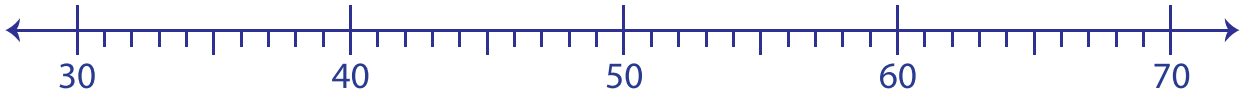


2) Eleven staff from a university visited a museum. The below given data shows their ages noted by a volunteer of the museum to issue tickets.

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

Make a box-and-whisker plot.

Min : _____, Q_1 : _____, Q_2 : _____, Q_3 : _____, Max : _____

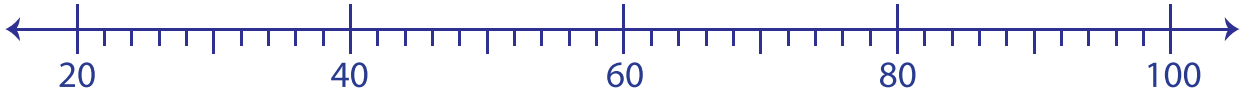


3) The figures shown below are the sales of twelve vegetables (in pounds) at a supermarket in a day.

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

Make a box-and-whisker plot.

Min : _____, Q_1 : _____, Q_2 : _____, Q_3 : _____, Max : _____

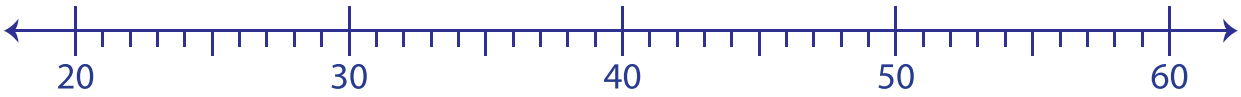


Make and Interpret the Plot

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? _____

2) What is the first quartile of the given data? _____

3) What is the median of the given data? _____

4) What is the length of the shortest bone? _____

5) What is the third quartile? _____