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Box-and-Whisker Plot

Sheet 1

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: _____, Q₁: _____, Q₂: _____, Q₃: _____, 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: _____, Q₁: _____, Q₂: _____, Q₃: _____, 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: _____, Q₁: _____, Q₂: _____, Q₃: _____, Max: _____



Worksheet 101

Question 1 (33 Marks)

The following table shows the number of employees who have been promoted to various positions at Company X. Find the frequency of each item. The first employee is an assistant who reports the status. For each year, the number of employees promoted with each position is:



2. For each position, find the number of employees who were promoted to each position. (Round "mean" to 2 decimal places.)

- Mean: _____
- Median: _____
- Mode: _____
- Range: _____

Question 2 (6 Marks)

Answer the following questions with reference to the following data. If any part of the data is not given, then assume the data is given. (Round "mean" to 2 decimal places.)



3. Find the mean, median, mode, and range of the data.

Question 3 (10 Marks)

The following table shows the number of employees who have been promoted to various positions at Company X. Find the frequency of each item. The first employee is an assistant who reports the status. For each year, the number of employees promoted with each position is:

Year	Position	Frequency	Mean	Median	Mode	Range
2010	Assistant	10	10.00	10.00	10	0
2011	Manager	8	8.00	8.00	8	0
2012	Director	6	6.00	6.00	6	0
2013	Executive	4	4.00	4.00	4	0
2014	Assistant	10	10.00	10.00	10	0
2015	Manager	8	8.00	8.00	8	0
2016	Director	6	6.00	6.00	6	0
2017	Executive	4	4.00	4.00	4	0
2018	Assistant	10	10.00	10.00	10	0
2019	Manager	8	8.00	8.00	8	0
2020	Director	6	6.00	6.00	6	0
2021	Executive	4	4.00	4.00	4	0

Box and Whisker Plots #1

Name: _____ Date: _____

Answer the following questions using the provided Box and Whisker Plots.



- What is the range?
- 13 would be the called the _____.
- What is the median?
- What fraction represents numbers between 25 - 27?
- What is the upper whisker?
- The upper extreme is what?



- What is the lower median?
- What is the upper median?
- What is the median?
- What is the range?
- A quartile represents what percentage of numbers?
- 75% of the numbers are smaller than what?
- 4 would be called the _____.

Interquartile range with example. Interquartile range = . Interquartile range formula in excel. Interquartile range problems and answers. Interquartile range formula in statistics.

The interquartile range, often denoted IQR, is a way to measure the spread of the middle 50% of a dataset. It is calculated as the difference between the first quartile (Q1) and the third quartile (Q3) of a dataset. Note that quartiles are simply values that split up a dataset into four equal parts. The IQR is often used to measure the spread of values in a dataset because it's known to be resistant to outliers. Since it only tells us the spread of the middle 50% of the dataset, it isn't affect by unusually small or unusually large outliers. This makes it a preferable way to measure dispersion compared to a metric like the range, which simply tells us the difference between the largest and the smallest values in a dataset. This tutorial explains how to calculate the IQR for a given dataset in Google Sheets. Example: How to Calculate IQR in Google Sheets Use the following steps to calculate the interquartile range (IQR) of a dataset in Google Sheets. Step 1: Enter the data. First, enter all of the values of a dataset into one column: Step 2: Calculate the first and third quartiles. Next, we'll use the QUARTILE() function to calculate the first (Q1) and third (Q3) quartiles of the dataset. Note that this function uses the following syntax: QUARTILE(data, quartile_number) where: data: An array of data values quartile_number: The quartile to calculate The following image shows the formulas to use to calculate Q1 and Q3 for this dataset: Step 3: Calculate the IQR. Lastly, we can subtract the first quartile (Q1) from the third quartile (Q3) to obtain the interquartile range: The interquartile range turns out to be 16. This tells us the spread of the middle 50% of values in our dataset. Additional Resources How to Calculate the Interquartile Range (IQR) in Excel How to Calculate Standard Deviation in Google Sheets How to Calculate a Five Number Summary in Google Sheets How to Make a Box Plot in Google Sheets Box-and-whisker plot worksheets have skills to find the five-number summary, to make plots, to read and interpret the box-and-whisker plots, to find the quartiles, range, inter-quartile range and outliers. Word problems are also included. These printable exercises cater to the learning requirements of students of grade 6 through high school. Grab some of these worksheets for free! Five-Number Summary - Level 1 Analyze the data sets with single-digit, 2-digit, and 3-digit values, and jot down the five key values: the 1st, 2nd, and 3rd quartiles, and minimum and maximum that constitute the 5-number summary. Five-Number Summary - Level 2 Level up identifying the upper and lower quartiles, maximum and minimum values, and median, necessary to make box and whisker plots, from data sets involving decimal values. Making Box and Whisker Plots: Standard | Level 2 Climb up the ladder in making box plots with these worksheets! Observe the data sets that involve more than 10 data values and also decimals, figure out the elements of the box plot, and create it. Read and Interpret: Level 1 Dig into practice with these handouts for 6th grade and 7th grade students. Read the scenarios and interpret the box-and-whisker plots to answer the word problems based on the five-number summary. Read and Interpret: Level 2 These pdf worksheets for grade 7 and grade 8 have exclusive word problems to find the five-number summary, range and inter-quartile range. Make and Interpret For the given data, make a box-and-whisker plot. Interpret the data to find Q1, Q2, Q3, maximum and minimum values. Finding the Outliers Each printable worksheet has eight problems in store for 8th grade and high school students. Find the outliers by computing the quartiles and the inter-quartile range. In worksheet on finding the quartiles and the interquartile range of raw and arrayed data we will solve various types of practice questions on measures of central tendency. Here you will get 5 different types of questions on finding the quartiles and the interquartile range of raw and arrayed data.1. The number of problems worked out by a student on seven days of a week were following.5, 9, 15, 11, 13, 17, 7Find the (i) lower quartile, (ii) upper quartile, (iii) interquartile range, (iv) semi-interquartile range, and (v) range for the distribution. 2. Find the (i) lower quartile, and (iii) interquartile range for the following data.2, 1, 0, 3, 1, 2, 3, 4, 5, 53. Find for the given distribution. (i) the lower quartile, (ii) the upper quartile, and (iii) the interquartile range. Hint: Here $\frac{3N}{4}$ = $\frac{3 \times 56}{4}$ = 42 = cumulative frequency of the variate 50. So, Q3 = $\frac{50 + 60}{2}$.Answers on Worksheet on Finding the quartiles and the interquartile range of raw and arrayed data are given below to check the exact answers of the questions. Answers1. (i) 7(ii) 15(iii) 8(iv) 4(v) 122. (i) 1(ii) 3(iii) 23. (i) 3(ii) 7(iii) 44. (i) 20(ii) 40(iii) 205. (i) 20(ii) 55 (iii) 35 10th Grade MathFrom Worksheet on Finding the Quartiles and the Interquartile Range of Raw Data to HOME PAGE Didn't find what you were looking for? Or want to know more information about Math Only Math. Use this Google Search to find what you need. Share this page: What's this?

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