

## **Grow the Crop**

# Handout 3 I Examples of Quartiles

CIN: 20400 Version: 001 Date: 2021/08/02

#### Example 1:

Below is a list of test marks of students, arranged in order. Calculate the 1st, 2nd and 3rd quartiles.

1. First, we calculate the 2nd quartile or median:

2. Now we calculate the 1st quartile:

3. Now we calculate the 3rd quartile:

4. Now comes the 5-number summary

Minimum value of the data set	2
1st quartile	12.5
2nd quartile = median	16
3rd quartile	23
Maximum value of the data set	10.5

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#### Example 2:

Mrs. Naidoo has set 3 Maths tests for her class. She wants to compare how the learners have fared in the three tests. Below is the summary of her results.

	Test 1	Test 2	Test 3
Minimum	4	4	9
1st quartile	11	17	26.5
2nd quartile/median	26	30	39
3rd quartile	39	41	45
Maximum	50	50	50

### Interpretation:

- Comparing tests 1 and 2, we can see that the minimum and maximum values are the same.
- The quartiles for test 2 are much higher than for test 1, showing that pupils fared better in test 2.
- In Test 3 the minimum value is higher, showing that the weakest pupil improved.
- The quartiles are even higher than test 2, indicating that the class improved overall.
- Mrs. Naidoo is happy.

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