

NAME _____

QUARTER _____

GRADE & SECTION _____

DATE _____

Activity: Quartile

Find the quartile using linear interpolation. Fill-up the Math-Breaker Map as guide in coming up with conclusion.

The following are scores of ten students in their 40-item quiz. Find the second quartile: 34, 23, 15, 27, 36, 21, 20, 13, 33, 25

Arrange the data in ascending order

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Total number of elements

$$N = \boxed{\quad}$$

Locate the position of the score in the distribution.

$$Q_2 = \frac{(N+1)}{4} = \frac{(\boxed{\quad} + 1)}{4}$$

$$Q_2 = \boxed{\quad}$$

Find the difference between the two values wherein the Q_k is situated.

$$\boxed{\quad} - \boxed{\quad} = \boxed{\quad}$$

Multiply the decimal part result of the Q_k to the difference.

Difference	Decimal
$\boxed{\quad}$	$\times \boxed{\quad} = \boxed{\quad}$

Add the result in to the smaller number to get the value of Q_k

Smaller value	product
$\boxed{\quad}$	$+ \boxed{\quad} = \boxed{\quad}$

INTERPRETATION:

The $\boxed{\quad}$ quartile is $\boxed{\quad}$.

Thus, we conclude that $\boxed{\quad}\%$ of the 10 students scored less than $\boxed{\quad}$ points in their 40-item quiz.

Compute for the lower quartile. The weights (in kg) of the students in a class are the following:

69 70 75 66 83 88 66 63 61 68 73 57 52 58

Arrange the data in ascending order

Total number of elements

$N =$

Locate the position of the score in the distribution.

$$Q_k = \frac{(N+1)}{4} = \frac{(\text{ } + 1)}{4}$$

$$Q_k = \text{ }$$

Find the difference between the two values wherein the Q_k is situated.

$$\text{ } - \text{ } = \text{ }$$

Multiply the decimal part result of the Q_k to the difference.

Difference \times Decimal $=$

Add the result in to the smaller number to get the value of Q_k

Smaller value $+ \text{ product} = \text{ }$

INTERPRETATION:

The quartile is .

Thus, we conclude that % of the 14 students weighs less than kg.

How many attempts?
How well did you do?



Need help!



Just OK!



Splendid

I CAN...