B1. How can we figure out what
1. How can we bigure out what the interquartile range is?
-> order the data from least to greatent
-) Find the median
-> Calculate the median of both the
lower and upper half of the data.
- The IBR is the difference between
the upper and lower medians.
2) order the data from legat to
greatest:
In order to Calculate the
TOR, we need to begin by ordering the values of the data set from the
the values of the data set from the
least to the greatest likewise, in
order to calculate the median,
we need to arrange the numbers
in ascending order. Sunday 09
Buarder 1 (B) -25%
Guadeo 2 (m2) -50%, - median

Dotaset: 1,2,2,2,3,3,4,5,5,5,6,6,6,6,6,7,8,8,9,27 11) calculate the median Next, we need to calculate the media The median is the center of the data if the data set has an odd number of data points then the mean is centerment number. On the other hand, if the data set has an even number of values, then we will need to take the arithmetic average of the two centermont values. We will calculate the everage by adding the two numbers together and then dividing that number by two. Ose (median) - 10th position value - 5 iii) calculate upper & lower hmit; Di (254.) = Percentile x (man) $=\frac{25}{100} \times (1911)$ $= 25. \times 20 = 5 \text{ th index}$ = 3 (value)

$$\frac{33}{1707} = \frac{\text{Descentile}}{100} \times (n+1)$$

$$= \frac{75}{100} \times (19+1)$$

$$= \frac{75}{100} \times 20$$

$$= 15th index$$

$$= \frac{15}{7} \times 100$$

$$= 15th index$$

$$= \frac{7}{7} \times 20$$

$$= 100$$

$$= 15th index$$

$$= \frac{7}{7} \times 20$$

$$= 100$$

$$= 15th index$$

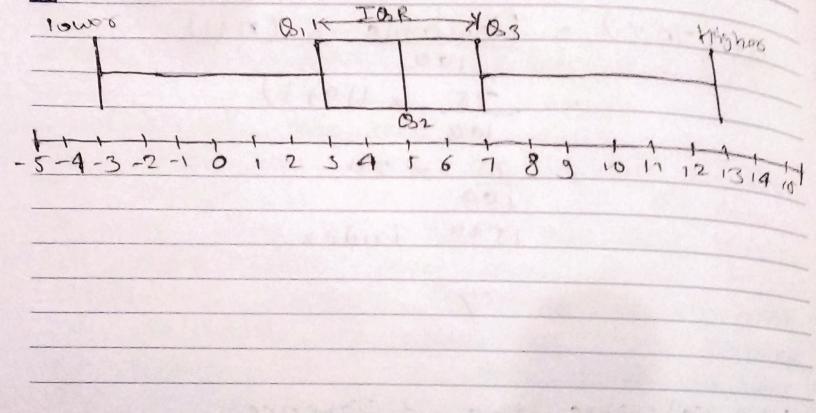
$$= \frac{7}{7} \times 20$$

$$= 100$$

$$= 15th index$$

$$= \frac{7}{7} \times 20$$

$$= \frac{7}$$



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\$2. What enactly in the value of the 5- number Summary?
There are a variety of descrip- -tive Statistics, Numbers such as mean, median; mode, standard denation. Prost quartile, It is a quartile etc. rather than looking at these descriptive statistics individually, sometimes complete statistics individually, sometimes complete picture. This is the reason we use five number summary. Which includes:—
i) Lower fence:- The Smallest value in our data set:
The number is denoted as an an and 25% of our data falls under it.
of the data (exortly in between)

iv) Third Quartile:-. This number is denoted by la and 75% of data falk below it. v) Maximum: Then is the maximum value in our data set. THE REPORT OF THE PARTY OF THE

at the oxiginal values like minutes or meters while the variance has much large units like meters sunday 16 iv) The variance is equal to the square of the standard deviation or the standard deviation is square root of variance.

94 what does the difference between variance and Standard deviation means

from mean, whereas standard deviation in the squared root of the variance.

set, Standard deviation spread around the mean.

equipments of meanure of spread for symmetrical distributions with no outline

: Variance measures the volatile nature of data of a population. whereas standard deviation, in finance, is often called volatility.

variance meanthous how for the outcome taries from the majors mean, solandood deviation measures how for the normal standard deviation, is flowed from the expected value.

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9 9
8.5. When is it appropriate to refer
to a skewed data distribution?
-> A dintribution is said to be
skewed when the data points chapter
more towards one side of the scale than
the others . Creating a curve that is
not symmetrical. In other words, the
right and the left side of the distribut
are shaped differently from each other
There are two types of skewed
dintribution.
A dintribution is positively skewed if
the scorer tall toward the lower side
of the scale and these are my few
higher scores. Positively data skewed is
also deffered to as skewed to the
right because that is the direction
of the long tail end of the chart
A distribution is negatively skewed it
the scores fall towards the higher side
of the scale and there are few low

Scoren.

