## Labsheet 2ACE

Exercise 27

\* use for Buiz Review

27. A recent survey asked 25 middle-school students how many movies they see in one month. The table and line plot below show the data.

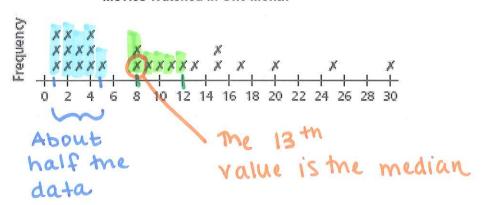
## Number of Movies Watched in One Month

Student	Number
Wes	2
Tomi	15
Ling	13
Su Chin	1
Michael	9
Mara	30
Alan	20
Jo	1
Tanisha	25

Student	Number
Susan	4
Gil	3
Enrique	2
Lonnie	3
Ken	10
Kristina	15
Mario	12
Henry	5

Student	Number
Julian	2
Alana	4
Tyrone	1
Rebecca	4
Anton	11
Jun	8
Raymond	8
Anjelica	17

## Movies Watched in One Month



a. Identify one section of the line plot where about half the data values are grouped.

Since there are 25 pieces of data,

12 pieces of data is about half.

From 1-5 is a Section where about half are Identify a different section where about one quarter of the data is grouped.

If 12 pieces is about half, then 6 pieces is about one quarter. From 8-12 is one quarter of the data

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b. What is the range of the data? Explain how you found it.

The range is 29. To find the range, you must subtract the minimum from the maximum.

Max - Min = Range

30 - 1 = 29 movies

c. Find the mean number of movies watched by the students. Explain.

. You must add all the data values.

when you add all 25 data values, you get 225.

· Then, you divide 225 by 25.

. The mean is a movies.

d. What do the range and mean tell you about the typical number of movies watched for this group of students?

of 9, the typical number of movies watched is close to the lower half of our data.

e. Find the median number of movies watched.

me 13 th value is the median, since there are 25 pieces of data.

The 13th piece of data is 8, so 8 is our Are the mean and the median the same? Why do you think this is so?

Median.

The mean is the average, or the "evening out" of all the data values.

The median is the exact middle position.

They are not the same.