F


## Median

## The number in the

 middle when data set is in numerical order.$1,1,2,4,4,4,5$

F

## Mode

## The number that

 occurs the most.$$
1,1,2,4,4,4,5
$$

## Bange

Maximum\# - Minimum\#

# 1. <br> 1, 2, <br> 4, 4, <br> 4, 5 

(5) $-1=4$


## Outliey

## Number unusually distant from the others

$$
1,1,2,4,4,4,25
$$

# Mean Absolute Deviation 

 The average distance between each data value and the mean,

$$
3-1=2 \quad 3-2=1 \quad 4-3=1 \quad 5-3=2
$$

$3-1=2 \quad 4-3=1 \quad 4-3=1$
$2+2+1+1+1+1+2=1.43$

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# Measures of 

## Center - Mean Median

# Measures of 

Spread - Range - Mean Absolute Deviation

- Standard Deviation


# Dot Plot 

Shows data on a number line with a dot for every occurrence


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## Histogram

Shows data using bars
「 Number Ranges

## $30 \times 10^{+}$ 5 number summary



Minimum Q1 Median Q3 Maximum






# Joint Frequency 

 Cell Value that tells info about 2 categories|  | Chocolate | Vanilla | Total |
| :--- | :---: | :---: | :---: |
| Male | 6 | 3 | 9 |
| Female | 5 | 6 | 11 |

# Marginal Frequency 

Cell Value that tells info about the totals

|  | Chocolate | Vanilla | Total |
| :--- | :---: | :---: | :---: |
| Male | 6 | 3 | 9 |
| Female | 5 | 6 | 11 |



## Conditional Relative

 FrequencyCompares a joint frequency to a marginal frequency

|  | Chocolate Vanilla | Total |  |
| :--- | :---: | :---: | :---: |
| Male | 6 | 3 | 9 |
|  |  |  |  |
|  |  |  | 11 |

## Minutes of Study Vs. Test Scores



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## Correlation

 A relationship between 2 sets of data

Positive Negative
Negative
No
CorrelationCorrelationCorrelation

## Correlation Coefficient, R

 Measures the closeness of the relationship between two data
$r=-1 \quad r=-0.5 \quad r=0$
Strong Weak None Negative Negative

$r=0.5 \quad r=1$
Weak Strong
Positive



# Correlation 

 fCausation

1. Choose 2 points on the line 2. Calculate the slope. $m=\frac{y_{2}-y_{1}}{x_{2}}$ 3. Locate the $y$ intercept $x_{2}-x_{1}$ 3. Locate the y-intercept. 4. Create a linear equation in the form: $\quad y=m x+b$
m=slope \& b=y-intercept

## Slope/ <br> $$
m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}
$$

# Rate of Change 

Minutes of Study Vs. Test Scores


Rate of Change= test score for every minute of study

# Y-Intercept 

Minutes of Study Vs. Test Scores

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