

WWW.MSPINEDA.COM (YOU MAY USE YOUR PHONE)  
LESSON #1

Aim: OVERVIEW OF STATISTICS

## I - Statistics (Subject)

- ① + to collect DATA (Information)
- ② + to arrange DATA (Tables)
- ③ + to Display DATA (by using graphs)
- + to Draw conclusions

EXAMPLE collect DATA  
~~16, 18, 19, 18, 16, 17, 16, 16, 17, 18, 16, 18, 16~~  
~~19, 17, 16, 17, 19, 18, 18, 18, 18, 17, 18, 17, 17,~~  
~~18, 17~~

NOTE: NEVER ASK FOR VOLUNTEERS  
 BEFORE YOU BEGIN - SET THE NUMBER OF PEOPLE  
 YOU WILL ASK

## ARRANGE DATA (TABLE)

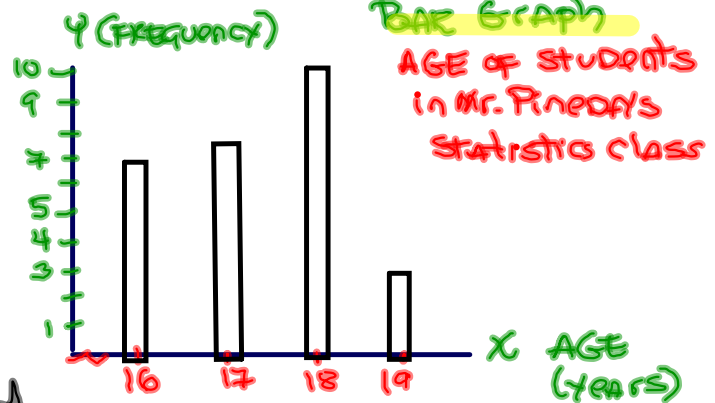
AGE	tally	Frequency
16		7
17		8
18		10
19		3

$\Sigma$  total = 28  
 Sum to add Frequency

to display DATA. (Graph)

(table)

AGE	tally	frequency
16		7
17		8
18		10
19		3

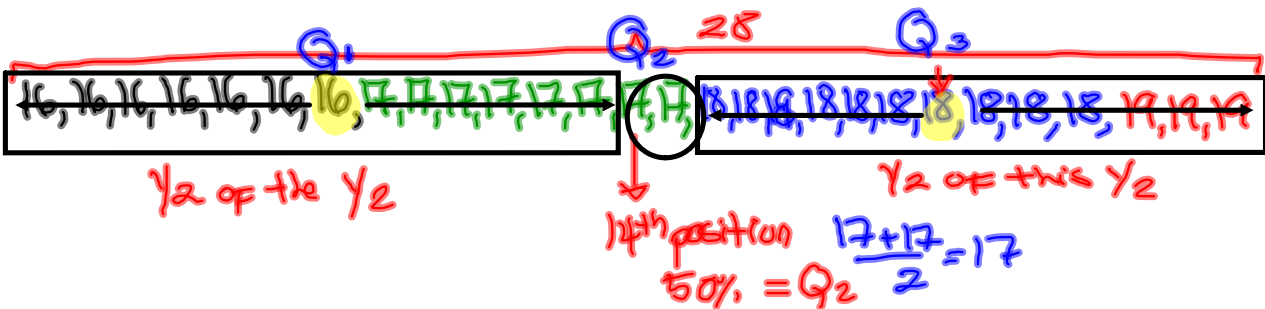


Box-whisker



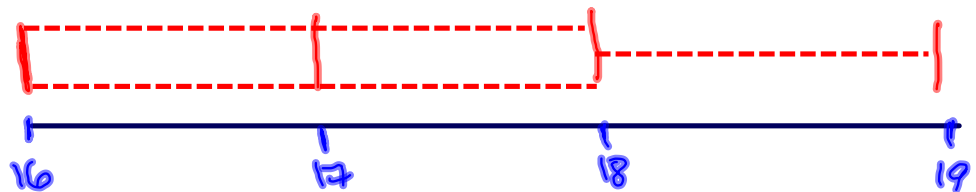
FIVE pieces OF INFORMATION

- EXAMPLE 16, 18, 19, 18, 16, 17, 16, 16, 17, 18, 16, 18, 16, 19, 17, 16, 17, 19, 18, 18, 18, 18, 17, 18, 17, 17, 18, 17
- minimum value = 16
  - MAXIMUM VALUE = 19
  - Median (50% OF DATA) =  $Q_2$
  - $Q_1$  (Quartile 1 = 25% OF DATA)
  - $Q_3$  (Quartile 3 = 75% OF DATA)
- $\frac{28 \text{ Numbers}}{2} = 14$



Graph

min=16,  $Q_1=16, Q_2=17, Q_3=18$ , MAX=19



+ Conclusion : the minority of the student's AGE (possible) is 19.