

MEAN, MEDIAN, MODE, RANGE

mean (average) ① add up data

② divide by number of points

from 3, 5, 7, 8, 7, 2, 3, 6, 4 find the mean

$$\begin{array}{cccccccccc} 3 & + & 5 & + & 7 & + & 8 & + & 7 & + & 2 & + & 3 & + & 6 & + & 4 & = & 45 \\ \textcircled{1} & & \textcircled{2} & & \textcircled{3} & & \textcircled{4} & & \textcircled{5} & & \textcircled{6} & & \textcircled{7} & & \textcircled{8} & & \textcircled{9} & & \end{array}$$

$$45 \div 9 = 5$$

Mean is 5

Median (middle) ① arrange least to greatest

② Get middle number

from 3, 5, 7, 8, 7, 2, 3, 6, 4 find median

2 3 3 4 5 6 7 7 8

x x x x x x x x



middle

Median is 5

Median with Even Number of Points

2, 3, 3, 4, 5, 6, 7, 7, 7, 8

x x x x x x x x x x

new ↓

middle two
are 5 & 6

Median is half
way between
middle two

Median
5.5

Mode → Most repeated number
up above is 7

Why is Mean, Median, Mode a Thing?

ALL are attempts to Summarize
a set of data with one number

If the data above represents the number
cousins a class of students has,
The mean median mode would
all give an answer to what you
would expect a new student to have.

Range → is different from mean, median, mode


→ Range does not summarize data

→ Range shows how spread out data is

→ Range describes variability

→ To calculate Range,
Simply do Big - Small

2, 3, 4, 5, 6, 7, 7, 7, 8



Range = $8 - 2$

Range = 6