

# 7.5 Mean, Median, Mode, & Range

Mean (average): add all numbers  
divide by how many numbers in all

Median: Arrange least to greatest  
Find middle number

Mode: The value that occurs the most

Range: The biggest value minus the smallest range

Mean:

$$\begin{array}{r} + 21 \\ 10 \\ 15 \\ 10 \\ \hline 56 \end{array} \quad \begin{array}{ccccccc} 8 & 13 & 8 & 4 & 11 & 3 & 2 & 7 \\ 21 & 10 & 15 & 10 & & & & \end{array} \rightarrow 56 \div 8 = 7 \leftarrow \text{mean}$$

Median:

$$\begin{array}{c} \uparrow \\ 2, 3, 4, 7, 8, 8, 11, 13 \\ \boxed{7.5} \end{array} \quad 7 + 8 \div 2 = 7.5$$

Mode:

$$\begin{array}{c} \uparrow \\ 8, 13, 8, 4, 11, 3, 2, 7 \\ \boxed{8} \end{array}$$

Range:

$$\begin{array}{c} \uparrow \\ 8, 13, 8, 4, 11, 3, 2, 7 \\ \boxed{11} \end{array} \quad 13 - 2 = 11$$

# Examples

39, 37, 36, 40, 41, 36, 37

Mean:  $\boxed{38}$

3  
39  
+ 37

Median:  $\boxed{37}$

36

36, 36, 37, 37, 39, 40, 41

40

41

Mode:  $\boxed{36, 37}$

36

37

266 ÷ 7

$$\begin{array}{r} 38 \\ 7 \overline{) 266} \\ \underline{-21} \phantom{0} \\ 56 \\ \underline{-56} \\ 0 \end{array}$$

Range:  $\boxed{5}$

$$41 - 36 = 5$$