Averages

Mean (Arithmetic Average)	Example 1	Example 2
Mean = $\frac{sum}{n}$, To get sum, add up the values for all objects n = the number of objects	Find the average of 80, 90, 76 $\frac{80 + 90 + 76}{3} = \frac{246}{3}$ = 82	One day a supermarket received a delivery of 25 frozen turkeys. If the average (arithmetic mean) weight of a turkey was 14.2 pounds, what was the total weight, in pounds, of all the turkeys? Total weight # of turkeys = avg.weight
		$\frac{x}{25} = 14.2$ $X = 25 \times 14.2 = 355$
Median	Example 3 (Odd number of numbers)	Example 4 (Even number of numbers)
Rank numbers from lowest to highest and find the middle number.	7,23,5,31,22 → 5,7,22,23,31	7,23,5,31,22,17 → 5,7,17,22,23,31
n = the number of numbers The rank of the middle number is (odd)	n = 5 Rank of middle number is $\frac{5+1}{2} = 3 \text{ (the third number)}$	n = 6 Rank of middle number is $\frac{6+1}{2} = 3.5 \text{ (between third and fourth numbers)}$
$\frac{n+1}{2}$	The number is 22, which is the median.	Therefore take average of the third and fourth numbers
Mode	Example 5	17+22 2 = median = 19.5 Example 6
The mode is the number in	9,9,3,5,7,5,9,2	14,3,22,5,7,7,3,1
the set that occurs most often	9 appears the most in the set	3 & 7 appear the most
	mode = 9	modes = 3,7