## Mean, Mode, Median, Range and Probability.

Mean - This is the type of average that occurs when you add up all the numbers in the data set and divide by the number of numbers that's there.

Example 1: Find the mean of the following numbers. 1, 2, 3, 4, 5, 6, 7, 8, 9

$$Mean = \frac{1+2+3+4+5+6+7+8+9}{9}$$

$$Mean = 5$$

Mode - This is the type of average that occurs when you have a number that occurs most in a list.

Mode = 7

Median - This is the type of average that occurs when you are looking for the middle number in a list.



This is because the median falls

between two numbers.

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Example 5: Find the range of the following numbers. 5, 6, 1, 7, 9, 1, 2, 3, 56

Range = Highest Value – Lowest Value Range = 56 – 1 Range = 55

Example 6: What is the probability that when rolling a dice, it lands on a  $\mathbf{5}$ 

Probability = <mark>Nu</mark>	umber of Favourable Outcomes
	Number of Total Outcomes
Probability $=\frac{1}{4}$	

Since we only want to roll a 5, and there is only one 5 on a dice the number of favourable outcomes is 1. The number of total outcomes is the number of different ways the dice could roll, which is 6.

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