



Agenda – Data Science Primer

1

Introduction to Data Types

2

Measurement Levels

3

**Random Variable, Probability,
Probability Distribution**

4

Inferential Statistics

5

Measures of Central Tendency

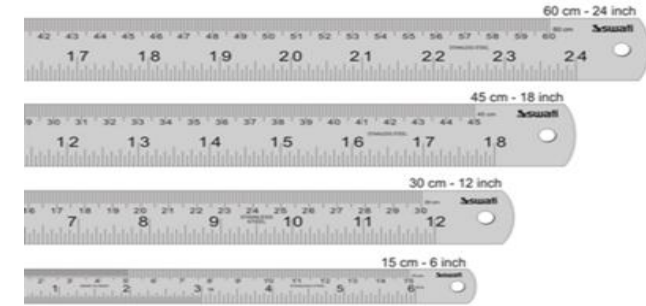
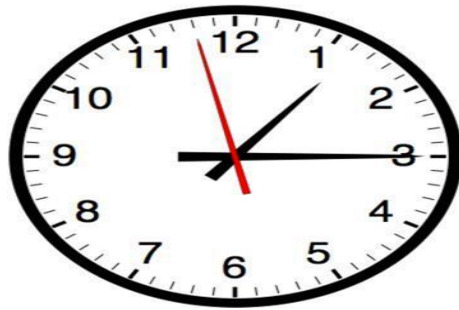
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Measures of Dispersion

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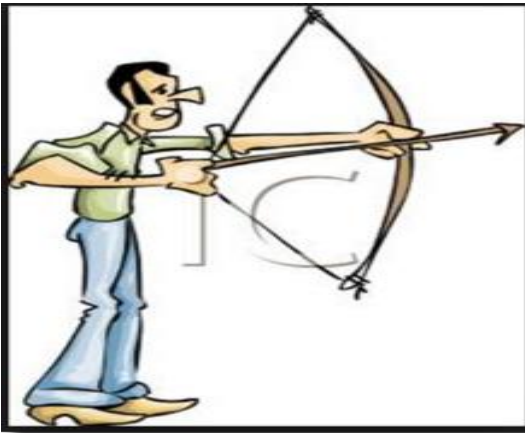
Expected Value

Data Types – Continuous & Discrete



Measures of Central Tendency


Central Tendency	Population	Sample
Mean / Average	$\mu = \frac{\sum(x_i)}{N}$	$\bar{X} = \frac{\sum(x_i)}{n}$
Median	Middle value of the data	
Mode	Most occurring value in the data	

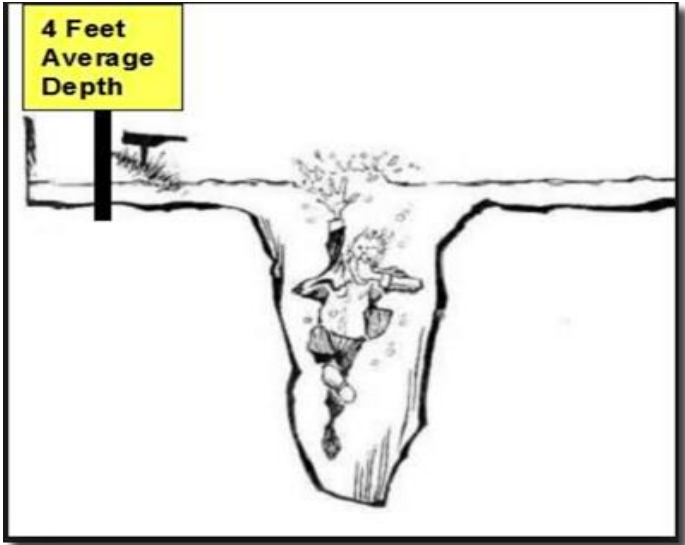


“Every American should have above average income, and my Administration is going to see they get it.” – American President

Measures of Dispersion

Measures of Dispersion

Dispersion	Population	Sample
Variance	$\sigma^2 = \frac{\sum (X - \mu)^2}{N}$	$s^2 = \frac{\sum (x - \bar{x})^2}{n - 1}$
Standard Deviation	 $= \sqrt{\frac{\sum (X_i - \mu)^2}{N}}$	$s = \sqrt{\frac{\sum (x - \bar{x})^2}{n - 1}}$
Range	Max – Min	





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