Cheatography

AP Statistics Unit 1 Cheat Sheet by kayheartsuu (kayheartsuu) via cheatography.com/162660/cs/34050/

Terms to Know (cont)

Terms to Know		
Population	entire collection of individuals or objects that information is gathered from	
Sample	subsets of population that is randomly selected	
Census	performed to gather information about an entire population	
Descriptive Statistics	method of organizing and summarizing data	
Inferential Statistics	making generalizations from a sample to a population	
Variable	characteristics that make change	
Data	actual observations collected	
Categorical Variable	no meaningful numerical value	
Numerical Variable	measurements, can be averaged	
Discrete Numerical	can only be specific values	
Continuous Numerical	can be any value	
Univariate	describes single characteristics	
Symmetrical Distribution	both sides of data are approximately the same when folded down the middle	
Normal Distri- bution	bell-shaped, occurs a lot in real life	
Uniform Distri- bution	rectangular shaped	
Skewed Distri- bution	one side is longer than the other	
Bimodal	has two distinct maximums	
Parameter	a fixed value about a population; typically unkown	
Statistic	a value calculated from a sample that is used to estimate the parameter	
Median	the middle of the data; 50th percentile	
Mean	the arithmetic average	
Mode	the observation that occurs the most often	
Resistant	when a statistic is not affected by outliers	
Variability	how spread out the data is	
Standard Deviation	a measure of the average distance from the mean	

Interquartile Range		the range of the middle 50% of the data	
Variance		the average of the squared deviations	
SOCCS			
Shape	the distribution of the graph (symmetrical, uniform, normal, skewed, bimodal)		
Outliers	values that are away from the rest of the data		
Context	explain what the graph is showing		
Center	describe the mean or median of the data		
Spread	describe the range, IQR, or standard deviation of the data		
Graph Types			
Bar Graph	n categ	orical, bars do not touch	
Pie Graph	n categ	orical, percentages, can be approximated	
Dotplot	nume	rical, putting dots on a number line	
Stem Plot	univa	univariate numerical, must have a key	
Discrete Histogram	nume ns value	numerical, bars touch, centered over discrete values	
Continuou Histogram	us nume ns value	rical, bars touch, bars cover an intervals of s	
Boxplot	displa subje	displays percentages of data, construction is subjective, useful for comparisons	
Ogives	show	s relative frequency, or percentiles for data	
Formulas			
Z-Score	Z =	(value - mean)/(standard deviation)	
IQR	Q3	- Q1	
Lower Fence Q		- 1.5(IQR)	
Upper Fence Q3		- 1.5(IQR)	

Empirical Rule 68-95-99.7 Rule 68-95-99.7 Rule 99.45% 99.45% 99.73% 99.73% 99.73% 99.73% 99.73% 99.73% 99.73%



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