Data Management Study Guide

Vocabulary

Census vs Sample

Census: The whole population. Sample: Part of the population

Bias vs Reliable vs Valid Results

Bias: Unfair or invalid data that lead to a skewed results. Reliable: Duplicated to get same results Valid: Represents an entire population.

Inference

To use your own knowledge into a statement. Looking beyond the data. What do YOU conclude from the results.

Central Tendency

Mean, Median, Mode, Outlier

Mean: Average (Add all data and divide by how many there are)
Median: Middle Number (list all data least to greatest and meet in middle. If two numbers left: add up and divide by 2)
Mode: Most Frequent (look at data and identify duplicates)
Outlier: Most extreme on either side that skews your data.

Organize Data

Tally: A number chart that you count data

Favourite part of Christmas	Number of people
Decorating the tree	'YAL IIII
Opening presents	THE THE T
Playing in snow	111
Carols and music	111
Time with friends and family	1XXI I
Christmas food	

Frequency Chart: Convert the tally into recordable numbers

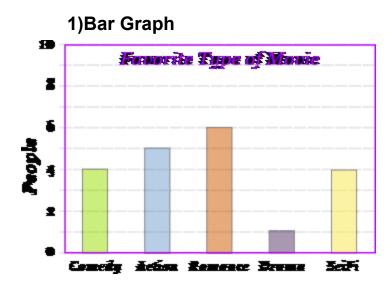
Type of Pet	Tally	Frequency
Dog	HH HH	12
Cat	JHT	7
Goldfish	JHT I	6
Budgie		3
Hamster		2
Lizard	1	1
Snake	Î	1
Rabbit		3

Stem & Leaf: Organize data using base 10 or groups.

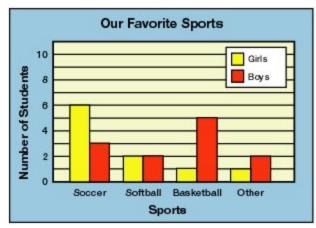
1	ſ	
stem	leaf	
0	1, 1, 2, 2, 3, 4, 4, 4,	4, 5, 8
1	0, 0, 0, 1, 1, 3, 7, 9	
2	5, 5, 7, 7, 8, 8, 9, 9	
3	0, 1, 1, 1, 2, 2, 2, 4,	5
4	0, 4, 8, 9	
5	2, 6, 7, 7, 8	
6	3, 6	

Key: 6 3 = 63 years old

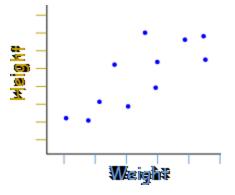
Types of Graphs



2) Double bar Graph

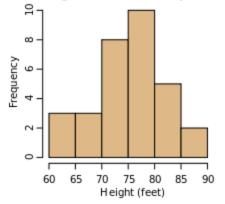


3)Scatterplot



4) Histogram

Heights of Black Cherry Trees



5) Circle Graph Forerite Type of Movie

