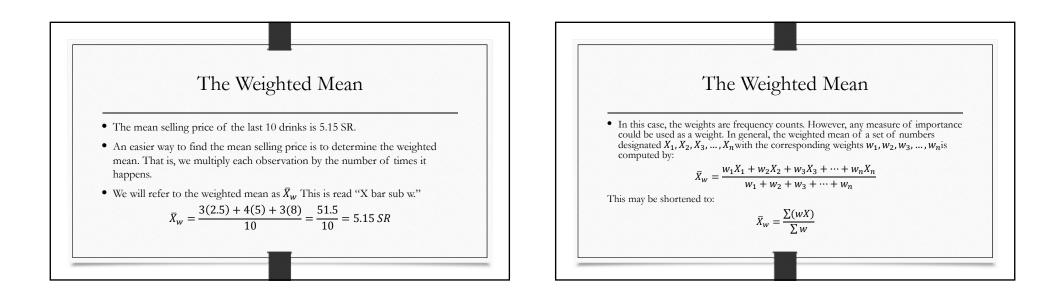
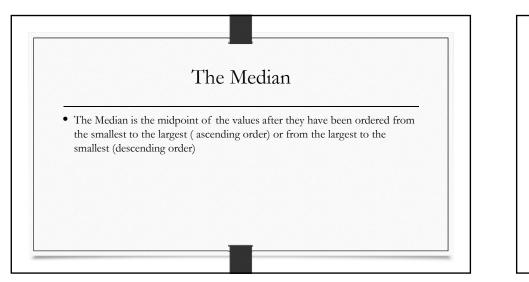
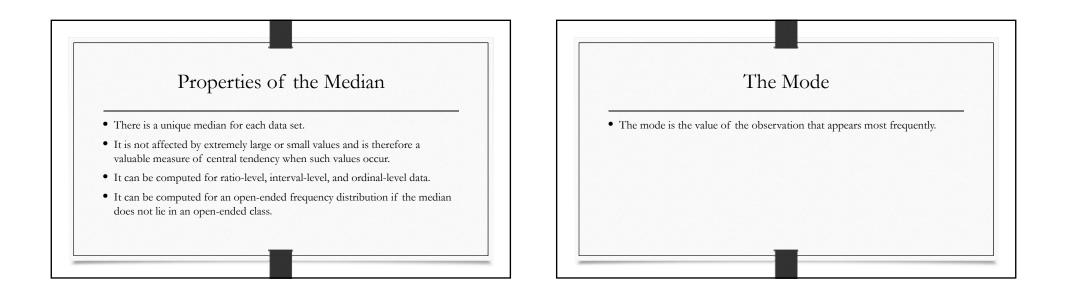


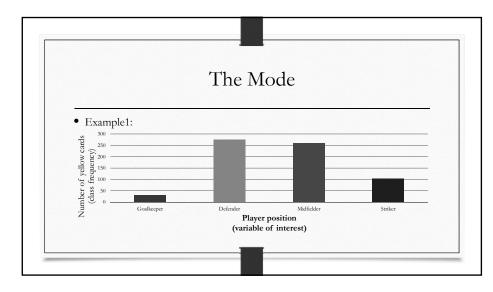
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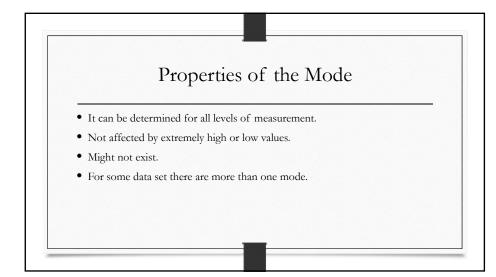


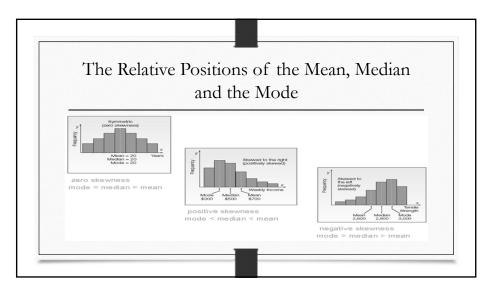
The I	Median
Example 1: The ages for a sample of five college students are:	Example 2: The height of four basketball players, in inches, are:
21, 25, 19, 20, 22.	76, 73, 80, 75.
Arranging the data in ascending order gives:	Arranging the data in descending order gives:
19, 20, 21, 22, 25	80, 76, 75, 73
Thus, the median is	Thus, the median is

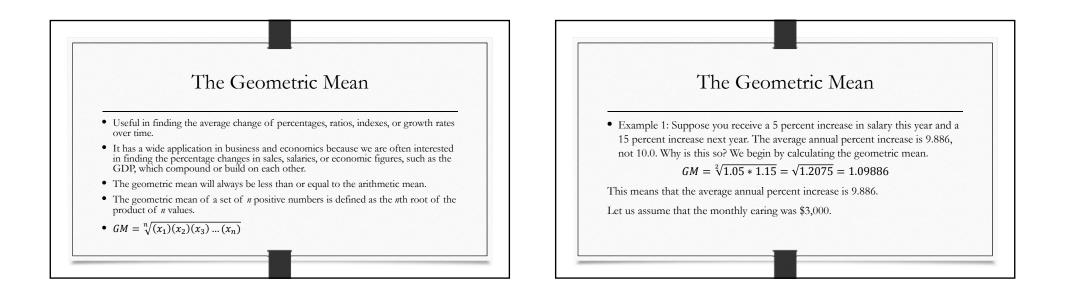


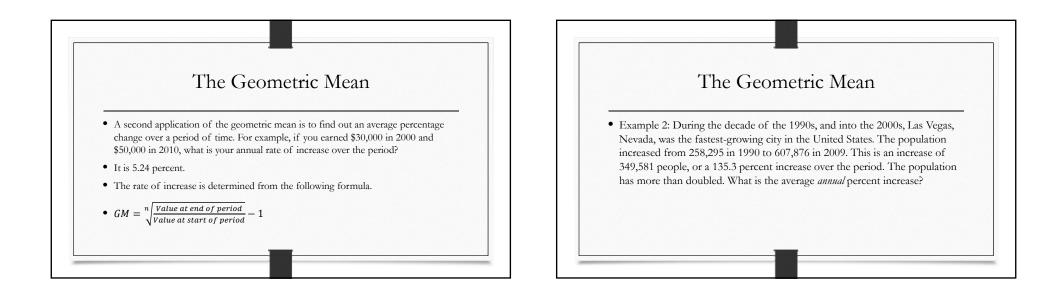


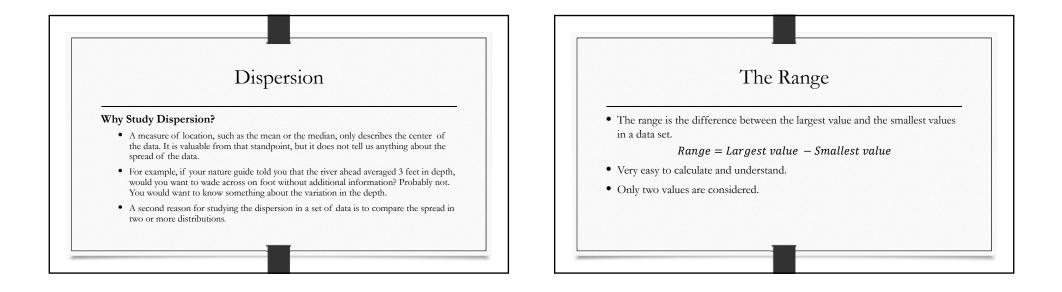
			The N	Iode			
• Eva	mple 2:						
- Exa	1	aries of qua	lity-control mana	agers in sele	cted states are	shown below.	
	What is the m			goro in colo		ono ni bolo ni	
	State	Salary	State	Salary	State	Salary	
	Arizona	\$35,000	Illinois	\$58,000	Ohio	\$50,000	
	California	49,100	Louisiana	60,000	Tennessee	60,000	
	Colorado	60,000	Maryland	60,000	Texas	71,400	
	Florida	60,000	Massachusetts	40,000	West Virginia	60,000	
	Idaho	40,000	New Jersey	65,000	Wyoming	55,000	

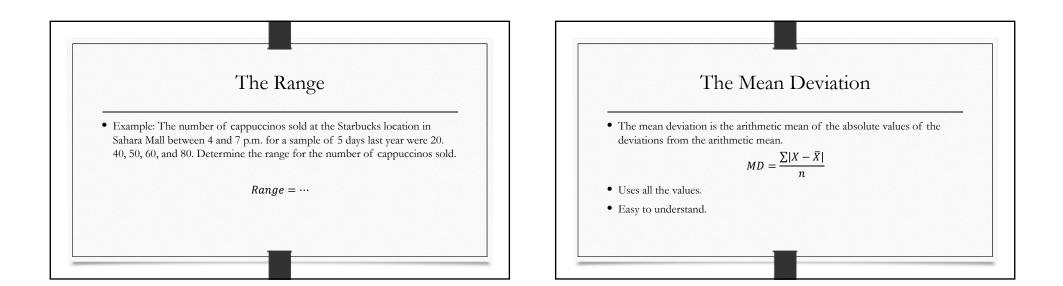


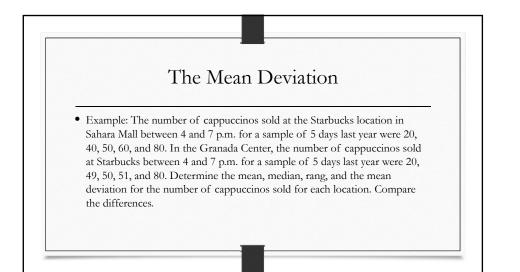






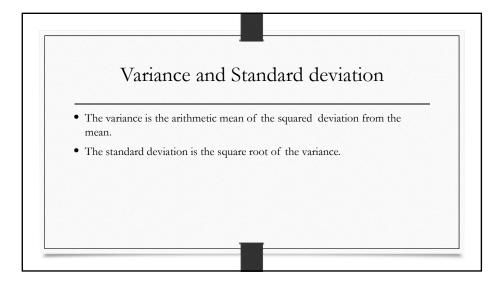


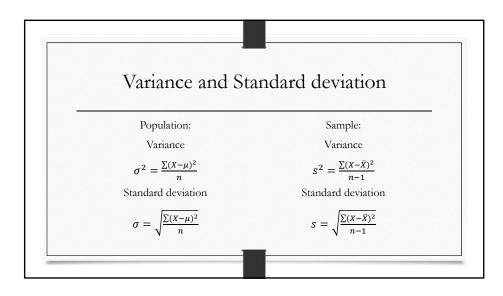


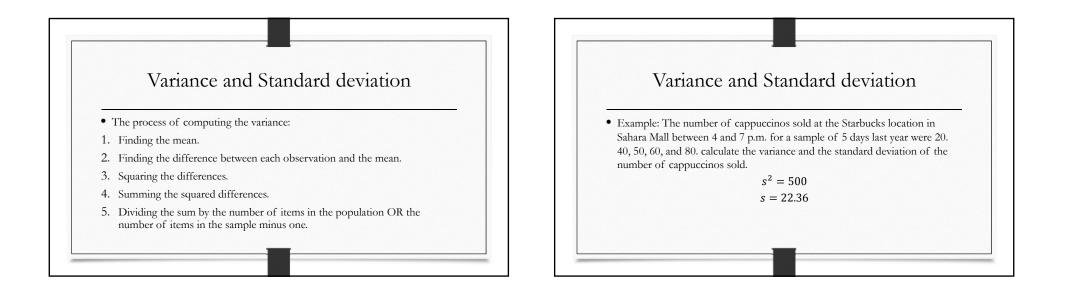


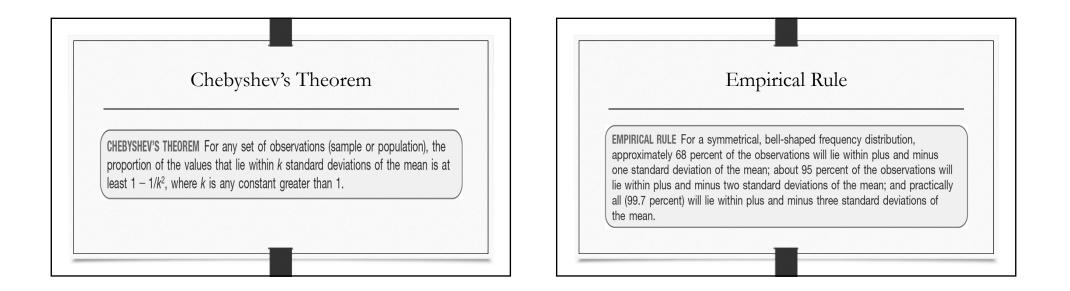
Sahara Mall The Granada Center 20, 40, 50, 60, and 80 20, 49, 50, 51, and 80
20, 40, 50, 60, and 80 20, 49, 50, 51, and 80
$\bar{X} = 50$ $\bar{X} = 50$
Median = 50 Median = 50
Range = 60 Range = 60
MD= 16 MD= 12.4

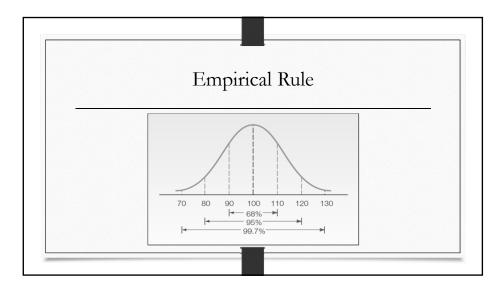
o





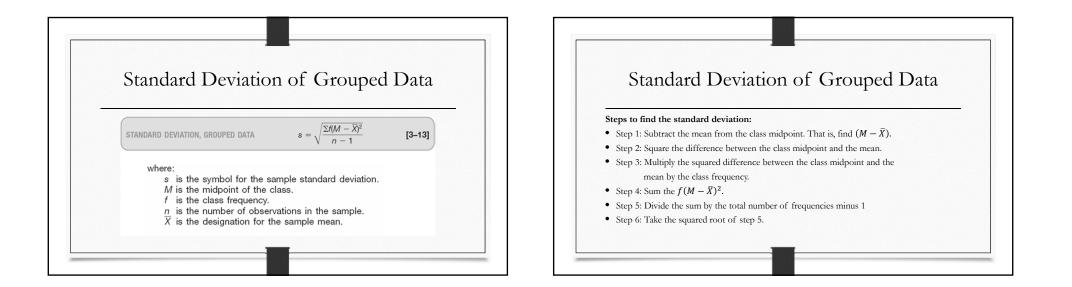






Т	'he arithmetic Mean of Grouped Data
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	ARITHMETIC MEAN OF GROUPED DATA $\overline{X} = \frac{\Sigma f \dot{M}}{n}$ [3-12]
	where: \overline{X} is the designation for the sample mean. M is the midpoint of each class.
	f is the frequency in each class. fM is the frequency in each class times the midpoint of the class. ΣfM is the sum of these products.





Standa	ard Devia	tion of Grouped Data	Standard Deviation of Grouped Data						
Example: In a	n event we asked	a sample from the audience about their ages	Class	Frequency(<i>f</i>)	Midpoint (M)	$(M-\overline{X})$	$(M-\overline{X})^2$	$f(M-\overline{X})$	
and we construct the following table:			5 up to 10	10	7.5	-8	64	640	
			10 up to 15	3	12.5	-3	9	27	
Class	Frequency(f)		15 up to 20	4	17.5	2	4	16	
5 up to 10	10	Q) Compute the standard deviation of age.	20 up to 25	3	22.5	7	49	147	
10 up to 15	3		25 up to 30	5	27.5	12	144	720	
15 up to 20	4		Total	25				1550	
20 up to 25	3				$\sum f(M-\bar{X})^2$	1550			
25 up to 30	5			$s = \left \frac{2}{3} \right $	$\sum (M - X)$	_ 1550 _	8.04		