

- 1. If x is a variable follows the normal distribution then approximately 68% of the x values fall within plus and minus one standard deviation of the mean.
- 2. If x is a variable follows the normal distribution then approximately 95% of the x values fall within plus and minus two standard deviation of the mean.
- 3. If x is a variable follows the normal distribution then approximately 100% of the x values fall within plus and minus three standard deviation of the mean.

Ŧ	PDF Comple	ete	You use p Th	ur comp period h ank you PDF (olimentary as ended. I for using Complete.	ıta:						
Unlimi	ted Pages a	and E				15	16	17	18	19	25	
Compute the mean and the median and describe the distribution.												
	Answer: mean=16					mediar	nedian=15.5 the distribu on is positively				vely skewed	
	-	(b) 1	we nav 12	13	14	data: 15	16	17	18	19	20	
Compute the mean and the median and describe the distribution.												
	Answer: mean=15			=15	median=15.5			the distribu on is negatively skewed				
(c) We have the following da						data:						
	ź	11	12	13	14	15	16	17	18	19	20	
Compute the mean and the median and describe the distribution.												
			Answer: mean=15.5			median=15.5			the distribu on is normal			



(a) The mean > median: the distribution is right-Skewed = positively skewed.

(b) The mean < median: the distribution is left-Skewed = negatively skewed.

(c) The mean = median: the distribution is symmetric = normal.