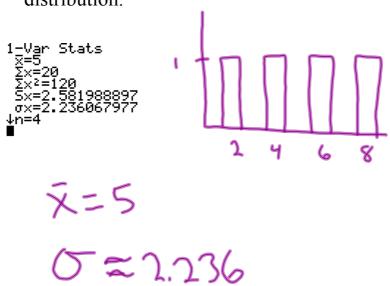
Central Limit Theorem

A teacher gives an eight point quiz to a class of **stud**ents. The scores of the quiz are 2, 4, 6, & 8. Find the mean, standard deviation, and make a frequency distribution.



Now, take all samples of size 2 with replacement and find the means:

$$2, 2 \rightarrow 2$$
 $1, 4 \rightarrow 3$
 $1, 4 \rightarrow 3$

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Find the mean, standard deviation, and make a frequency distribution.



Central Limit Theorem: As n increases, the shape of the distribution of the sample means taken from a population with mean μ and standard deviation $\underline{\sigma}$ will approach a normal distribution with mean μ and standard deviation $\underline{\underline{\sigma}}$

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