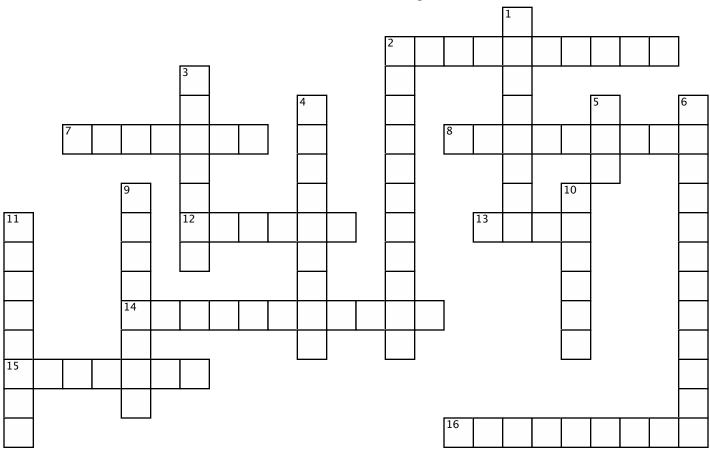
## YMS Ch7: Random Variables

## AP Statistics at LSHS Mr. Molesky



## Across

2. Random variable that takes on all values in an interval

7. Type of curve that describes the probability distribution of a continuous random variable

8. Swiss family of mathematicians. Jakob made

significant contributions to probability

12.A variable whose value is a numerical outcome of a random phenomenon

13. Probability of an individual outcome in a continuous probability distribution

14. When random variables are not independent, the variance of their sum depends on the \_ between them.

15. Law of large \_: As the number of observations increases, the mean of the observations approaches the true mean of the population.

16. Square root of the variance: standard \_

## Down

I. Random variable that has a countable number of possible values

2. Any linear \_ of independent normal random variables is also normally distributed

3. This distribution's density curve looks like a rectangle

4. Probability distributions of discrete random variables can be pictured using a \_

5. If X and Y are independent random variables, the variance of  $X\pm Y$  is the \_ of the variances of X and Y 6. The probability \_ of a random variable tells us the possible values of X and how probabilities are assigned to those values

9. The mean of a random variable is called its \_ value 10. Name for a distribution described by N(mu, sigma)

II.A measure of variability around the mean