

Name: \_\_\_\_\_

RANDOM VARIABLES: TAPE#16

1. The movie "Stand And Deliver" told the story of Jaime Escalante and the students studying advance placement math. What happened to the students that might by itself might be a reason for a probability analysis?

2. On January 28, 1986 a tremendous disaster happened to the Space Shuttle Challenger. It was decided that the disaster was most likely caused by "O" Ring failure. The probability of failure of one "O" ring was 0.023 making the probability of success of one "O" ring 0.977. Give the probability analysis for the probability of all six "O" Rings succeeding.

3. The sum of the heights of a relative frequency histogram is one. Using this fact, statisticians can construct a very similar histogram. What is its name?

4. Parkfield, California is a tiny town half way between San Francisco and Los Angeles. Why is it an ideal town for studying earthquakes?

5. The Coca Cola company conducted a study to determine the number ice cubes found a a glass of Coke. What was the mean number of ice cubes and what was the standard deviation?