

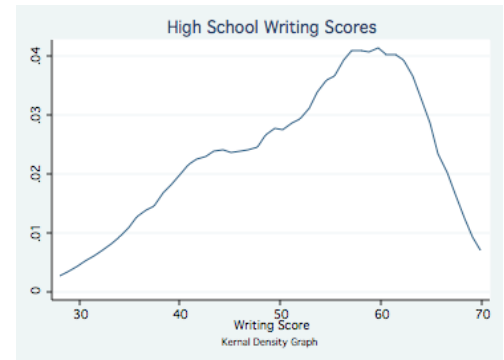
Write the probability distribution described by each statement: Binomial, Exponential, Geometric, Hypergeometric, Negative Binomial, Poisson

1. Finds the probability that the first time something happens is on the 3rd trial _____
2. Is used to calculate probabilities about waiting times _____
3. Finds the probability of obtaining 4 successes in 7 trials _____
4. Has an expected value equal to lambda _____
5. Finds the probability of choosing x objects of type X and y objects of type Y _____
6. Calculates probabilities of the number of trials until something happens _____
7. The graph displays scores of 200 high school students on a writing test. Does the graph have a positive or negative skew? _____

Answer: _____ (Source: UCLA High School & Beyond, 2000)

8. Math scores on the test follow an approximate normal distribution with a mean of 52.6 and a standard deviation of 9.37. Suppose one student earns a score of 70 on this test. Show the formula you would use to convert $X = 70$ into a Z-score for this distribution.

Answer: _____



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