

Chapter 1 : Discrete random variables: Chapter 1 : Discrete random variables

S1 I can find the expected value of a discrete random variable X			
S2 I can find the expected value of X^2			
S3 I can find the variance of a discrete random variable			
S4 I can use the expected value and variance of a function of X			
S5 I can solve problems involving random variables			

Chapter 2: Poisson distributions: Chapter 2: Poisson distributions

S6 I can use the Poisson distribution to model real-world situations			
S7 I can use the additive property of the Poisson distribution			
S8 I can understand and use the mean and variance of the Poisson distribution			
S9 I can understand and use the mean and variance of the binomial distribution			
S10 I can use the Poisson distribution as an approximation to the binomial distribution			

Chapter 3: Geometric and negative binomial distributions: Chapter 3: Geometric and negative binomial distributions

S11 I can understand and use the geometric distribution			
S12 I can calculate and use the mean and variance of the geometric distribution			
S13 I can understand and use the negative binomial distribution			
S14 I can calculate and use the mean and variance of the negative binomial distribution			

Chapter 4: Hypothesis testing: Chapter 4: Hypothesis testing

S15 I can use hypothesis tests to test for the mean λ of a Poisson distribution			
S16 I can find critical regions of a Poisson distribution using tables			
S17 I can use hypothesis tests to test for the parameter p in a geometric distribution			
S18 I can find critical regions of a geometric distribution			

Chapter 5: Central limit theorem: Chapter 5: Central limit theorem

S19 I can understand and apply the central limit theorem to approximate the sample mean of a random variable			
S20 I can apply the central limit theorem to other distributions			

Chapter 6: Chi-squared tests: Chapter 6: Chi-squared tests

S21 I can form hypotheses about how well a distribution fits as a model for an observed frequency distribution and measure goodness of fit of a model to observed data			
S22 I can understand degrees of freedom and use the chi-squared (χ^2) family of distributions			
S23 I am able to test a hypothesis			
S24 I can apply goodness-of-fit tests to discrete data			
S25 I can use contingency tables			
S26 I can apply goodness-of-fit tests to geometric distributions			

Chapter 7: Probability generating functions: Chapter 7: Probability generating functions

S27 I can understand the use of probability generating functions			
S28 I can use probability generating functions for standard distributions			
S29 I can use probability generating functions to find the mean and variance of a distribution			
S30 I know the probability generating function of the sum of independent random variables			

Chapter 8: Quality of tests: Chapter 8: Quality of tests

S31 I know about Type 1 and Type 11 errors			
S32 I can find Type 1 and Type 11 errors using the normal distribution			
S33 I can calculate the size and power of a test			
S34 I can draw a graph of the power function for a test			

Date:

Student Reflection:	
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Teacher Comment: