Week
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Scheme of Work S2
Topic
DISCRETE R.V.s: 1) Binomial distribution
Factorial notation and the number of arrangements, The binomial distribution, Conditions for a binomial distribution
Binomial cumulative distribution function
Mean and variance of a binomial distribution, Harder problems
DISCRETE R.V.s: 2) Poisson distribution
Exponential series and the Poisson distribution
The mean and variance of a Poisson distribution, The Poisson cumulative distribution function, Conditions for a Poisson distribution
MOCK WEEK
The Poisson approximation of a binomial distribution, Choosing a binomial or Poisson distribution
Oct: HALF TERM
3) Continuous random variables
Continous random variables and their probability density functions, The cumulative distribution function
The mean and variance of a PDF
Finding the mode, median and quartiles of a continous random variable, Continuous uniform/rectangular distribution
4) Continuous Uniform distribution
Finding the mode, median and quartiles of a continous random variable, Continuous uniform/rectangular distribution
Exam Practice: Review Exercise 1 Odds Q1-15 Page 64
MOCK WEEK
Choosing the right model. Using Uniform for distribution of rounding error
CHRISTMAS
5) Normal approximations
Continuity correction / Approximating a binomial distribution by a normal distribution
Approximating a Poisson distribution by a normal distribution / Choosing the appropriate approximation
6) Population and samples
Populations, censuses and samples / Understanding the concept of Sampling

Exam Practice: Review Exercise 2 Page 126 Chapter 4 & 5 Qs only
MOCK WEEK
Simple random sampling, The concept of a statistic, The sampling distribution of a statistic
FEB HALF TERM
7) Hypothesis testing
The concept of a hypothesis test / The significance level of a hypothesis test / One and two tailed tests / DOING a Hypothesis test on Binomial and Poisson parameters
Finding CRITICAL VALUES: Hypothesis test for the proportion 'p' of a binomial distribution and the hypothesis tests for the mean 'lambda' of a Poisson distribution USING CRITICAL REGIONS
Exam Practice: Review Exercise 2 Page 126 Q1-21 Chapter
MOCK WEEK
Hypothesis Testing Review
EASTER
PPQs
PPQs
PPQs
PPQs
PPQs
PPQs

Prep	**Lesson Starter**		
Ex 1A Q1-3 Ex 1B Q1-8	Discussion on contents of S2 2 Discrete Models: Binomial Poisson / 3 Continuous: Uniform Functions Normal / Populations & Samples / Hypothosis Testing		
Ex 1C Q1-10	Memory Test: Specify Binomial conditions		
Ex 1D Q1-6 Ex 1E Q1-9	Memory Test: Specify Binomial conditions		
Ex 2B Q6-8 Ex 2C Q1-3	Memory Test: Specify Binomial conditions & Mean & Variance Formulae		
Ex 2C Q4-10 Ex 2D Q5-9	Memory Test: Specify Binomial conditions & Poisson conditions		
Ex 2E Q1-5 Ex 2F Q1-10	Memory Test: Specify Poisson Prob Formula & Conditions		
Ex 3A 3B	Memory Test: Specify Binomial & Poisson Mean & Variance Formulae / Specify conditions for Poisson approx of a Binomial		
Ex 3C	Memory Test: PDF Key Points 1i & 2: Page 63		
Ex 3D 3E	Memory Test: PDF Key Points 1 & 2: Page 63		
4A 4B	Memory Test: Binomial & Poisson formulae & conditions for Poisson approx to Binomial		
Review Ex 1 evens 2-16	Memory Test: PDF Key Points 1,2,3 Page 63		
4C Set PPQ on Chapter 1-4 for Xmas	Memory Test: Specify for Continuous pdf: f(x) Mean Variance & F(x)		
Ex5A Ex5B	Memory Test: Specify for Continuous pdf: f(x) Mean Variance & F(x)		
Ex5C Ex 5D	Memory Test: Specify Binomial & Poisson Mean & Variance Formulae / Specify conditions for Poisson approx of a Binomial		
Ex 6A	Memory Test: Specify conditions for: Poisson approx of a Binomial, Normal Approx of a Binomial, Normal Approx of a Poisson		

Set PPQ on Chapter 1-5	Memory Test: Advantages & Disadvantages of: census & sampling		
Ex 6B Ex 6C	Memory Test: Advantages & Disadvantages of: census & sampling, Define Sampling Unit, Sampling Frame, Forms of Sampling Frame list etc.		
Ex7A Ex 7B	Memory Test: Define Simple Random Sampling / unrestricted random sample / a statistic		
Ex 7C	Memory Test: Specify conditions for: Poisson approx of a Binomial, Normal Approx of a Binomial, Normal Approx of a Poisson		
Set PPQs for revision	Memory Test: PDF Key Points 1,2,3 Page 63		
Ex 7D & PPQs for Easter	Memory Test: Advantages & Disadvantages of: census & sampling, Define Sampling Unit, Sampling Frame, Forms of Sampling Frame, random sample, a statistic		
PPQs	Memory Test: Define Simple Random Sampling / unrestricted random sample / a statistic		
PPQs	Memory Test: Specify conditions for: Poisson approx of a Binomial, Normal Approx of a Binomial, Normal Approx of a Poisson		
PPQs	Memory Test: PDF Key Points 1,2,3 Page 63		
PPQs	Memory Test: Advantages & Disadvantages of: census & sampling, Define Sampling Unit, Sampling Frame, Forms of Sampling Frame, random sample, a statistic		
PPQs	Memory Test: All Key Points		
PPQs	Memory Test: All Key Points		

Exercise	Question	Correction		
3B	8c	Answer incorrect. Should be 0.875 (not 0.1875)		