Actuarial Common Entrance Test (ACET)

Stats Pack

Introduction

Background

Stats Pack has been developed in response to requests from students who have studied very little statistics before in their schooling and for whom Subject CT3 is a significant jump.

Whilst the Subject CT3 Course Notes do cover all that you need to know, it is our experience that some students can find the pace and brevity too much to gain a sufficient grasp of the subject and as a result find themselves at a disadvantage.

Therefore the Stats Pack covers the basic concepts of statistics at a slower pace with plenty of examples and careful explanations of where the results have come from.

Stats Pack is therefore appropriate for students who:

- have never met statistics before
- studied statistics a very long time ago and have forgotten the basics
- are struggling with Subject CT3 due to the pace of the course.

<u>SYLLABUS</u>	
Topic Stats Pack	
	Permutations and combinations
	Types of data
1	Statistical diagrams bar chart, histogram, dot plot, stem-and-leaf, boxplot
	Measures of location mean, median, mode
	Measures of spread range, interquartile range, standard deviation, variance
	Skewness
2	Probabilities
	basic rules of probabilities
	Advanced probabilities tree diagrams conditional probabilities
	Discusts wondom wowishles
	definitions probabilities
	mean, mode, median
	standard deviation and variance
	coefficient of skewness
3	
	Continuous random variables
	mean, mode, median
	standard deviation and variance
	coefficient of skewness
	Discrete distributions
4	discrete uniform
	Bernoulli
	binomial
	Continuous distributions
	continuous uniform
	exponential
	Correlation
5	scatterplots, covariance, correlation coefficient
	Regression