Week 10
Term 4
2014

Learning Brief

MM4: Probability, Statistics & Applications

Goals

By the end of this week, you should be able to:

- Define experiment, outcome, event, probability and equally likely.
- Interact with die rolls and spinners to help predict the outcome of experiments.
- Recognize the difference between outcomes that are equally likely and not equally likely to occur.
- Examine the sample space, using tree and lattice diagrams, and probabilities for experiments.

Theoretical Components

You will require Chapter 11 of Quest Mathematical Methods 11 (Jacplus e-text):

- Read through Section 11A on Experimental Probability. Study and make notes on Examples 1-3.
- Read through Section 11B on Calculating Probabilities. Study and make notes on Examples 4-8.
- Read through Section 11C on Probability Tree Diagrams. Study and make notes on Examples 9-11.

FORUM TOPIC

A secretary types four letters to four people and addresses the four envelopes. If she inserts the letters at random, each in a different envelope, what is the probability that exactly three letters will go into the right envelope?

Practical Components

Do the following questions. Organise your solution neatly in your exercise book:
EX 11A: As many as you can
EX 11B: As many as you can
EX 11C: As many as you can

Investigation

Copy out these questions and write your answers (with working or explanation):
Question 16, E x 11A: Quest Mathematical Methods 11 (Jacplus e-text).
Questions 20 and 21, E x 11C: Quest Mathematical Methods 11 (Jacplus e-text).

QFO

Quiz/Forum/Other

Forum this week, make sure you explain your answer.