

**EVANS RIVER K-12 SCHOOL
COURSE ASSESSMENT**

SUBJECT: Mathematics –Data & Probability- Yr 10- 5.3

OUTCOMES to be assessed:	
Number:	Outcome:
DS 5.1.1	Groups data to aid analysis and constructs frequency and cumulative frequency tables and graphs
DS 5.2.1	Uses the interquartile range and standard deviation to analyse data
NS 5.1.3	Determines relative frequencies and theoretical probabilities
NS 5.3.2	Solves probability problems involving compound events

The Task:	In class test + summary sheet + probability task
Weighting:	10%
Mark:	10 marks for summary, 20 for probability task as shown on rubric, 30 marks for test
Time Allowed:	2 weeks
Due Date:	Tuesday Week 8 for probability task, Thur Wk 7 for test

Tasks

1. produce up to a double A4 summary sheet that can be used as a resource for a test based on outcomes listed above. See Chapter 10 of your text. This summary should be used during your test & must be submitted with completed test
2. in class test- Week 7
3. Probability task- Choose 2 possible outcomes from the following hands of 5 cards A pair, 3 of a kind, 4 of a kind, full house, straight.
 - a) for each hand, calculate the theoretical probability it will occur from a 52 deck
 - b) run trials to see if theory matches experiment.
 - c) construct a tree diagram for your theoretical probabilities
 - d) comment on your results, including number of trials used

MARKING SCHEME:

Your responses will be marked on your ability to meet the criteria

RUBRIC	Exc 10	Good 7	Minimal 4
Unit summary	Contains formulae & or notes/ examples on cumulative frequency, grouped data, modal class, median & median using class centre, St Dev, IQR, box & whisker & skew, tree diagrams, 2 way tables, events with & without replacement Include “what if” type questions	Contains some formulae & or notes/ examples on cumulative frequency, grouped data, modal class, median & median using class centre, St Dev, IQR, box & whisker & skew, tree diagrams, 2 way tables	Contains some formulae & or notes/ examples on some of the following: cumulative frequency, grouped data, modal class, median & median using class centre, , tree diagrams
Card hands	2 hands correct probability, includes all possible outcomes. Trial of adequate size. Correct tree diagrams drawn	2 hands correct probability, includes most possible outcomes. Trial of adequate size. tree diagrams drawn	1 or 2 hands done with errors
comments	Correct reasons for trial size given. Accurate comments on differences between theory & practice. Comment on other effects, eg number of people playing	Reasons given. Some comments on differences between theory & practice	Minimal comments on results