Mathematics General 2 – Performance Band descriptions

*The typical performance in this band:*

Band 6

* selects appropriate mathematical concepts, skills and techniques consistently and uses them accurately
* uses a wide variety of problem-solving strategies to solve mathematical problems across a wide range of familiar and unfamiliar contexts
* applies sound reasoning to evaluate and efficiently construct mathematical arguments in familiar and unfamiliar contexts and to accurately interpret and analyse mathematical models
* uses symbols, numbers, words, diagrams and graphs to clearly and effectively communicate mathematical ideas and reasoning
* analyses representations of data to make predictions, inferences and conclusions
* makes and justifies informed decisions about financial situations
* carries out statistical processes to analyse, interpret and compare data
* solves problems involving uncertainty using the basic principles of probability

Band 5

* uses mathematical concepts, skills and techniques accurately
* uses a variety of problem-solving strategies to solve mathematical problems across a range of familiar and unfamiliar contexts
* applies sound reasoning to evaluate and construct mathematical arguments in familiar and unfamiliar contexts and to interpret and analyse mathematical models
* uses symbols, numbers, words, diagrams and graphs to communicate mathematical ideas and reasoning
* interprets representations of data to make predictions, inferences and conclusions
* makes informed decisions about financial situations
* carries out statistical processes to interpret and compare data
* solves familiar problems involving uncertainty using the basic principles of probability

Band 4

* uses mathematical concepts, skills and techniques accurately in familiar contexts and in some unfamiliar contexts
* uses some problem-solving strategies to solve mathematical problems in familiar contexts
* applies reasoning to construct mathematical arguments in familiar contexts and to use mathematical models
* uses symbols, numbers, words, diagrams and graphs to communicate mathematical ideas
* uses information given in symbolic, tabular or graphical form to make predictions, inferences and conclusions
* performs calculations in financial mathematics such as substituting into appropriate formulae
* calculates summary statistics such as the mean and standard deviation
* performs probability calculations to solve familiar problems

Band 3

* uses mathematical concepts, skills and techniques in familiar contexts
* presents steps in sequence in the construction of simple mathematical arguments
* uses numbers, words, diagrams and graphs to communicate mathematical results
* uses information given in diagrammatic, tabular or graphical form to make some predictions, inferences and conclusions
* draws simple diagrams when given clear instructions to assist in solving familiar mathematical problems
* performs basic calculations in financial mathematics
* calculates simple summary statistics such as the mode and range
* performs simple probability calculations to solve familiar problems

Band 2

* uses basic mathematical concepts, skills and techniques to solve simple familiar problems with limited accuracy
* uses numbers, words, simple diagrams and graphs to communicate mathematical results
* uses information given in diagrammatic, tabular or graphical form to assist in solving some simple mathematical problems
* performs some basic calculations in financial mathematics with limited accuracy
* recognises language of probability

Band 1