



MATHEMATICS & NUMERACY MODULE

This module is designed to test a candidate's ability to understand and work with numbers in a professional setting.



FUNDAMENTAL LEVEL ALIGNED TO:

- Foundation Level GCSE
- CSE (prior to 1988)
- Foundation Diploma



CORE LEVEL ALIGNED TO:

- Higher Level GCSE
- O-Level (prior to 1988)
- Higher Diploma



PROFESSIONAL LEVEL ALIGNED TO:

- A-Level
- Advanced Diploma
- BTEC National Diploma



ARITHMETIC

Designed to test an individual's mental arithmetic ability. Candidates are presented with short mathematical problems and are required to type the answer. Candidates do not require a calculator. All levels contain questions relating to: decimals, fractions, whole numbers, percentages and time. The Fundamental level tests a candidate's ability to do simple calculations. At Core and Professional, the difficulty is increased by raising the complexity of the numbers used.



NUMERACY

Designed to test an individual's ability to determine the answer to numerical scenarios with the aid of a calculator. Candidates are presented with a variety of question styles including true or false statements and multiple choice questions. All levels contain questions relating to: averages, conversions, costings, decimals, fractions, percentages, ratios and time. The Fundamental level involves performing simple calculations using a calculator. At Core and Professional levels, the difficulty is increased by raising the complexity of the mathematical scenarios and increasing the quantity of data required to achieve a result.



NUMERICAL COMPREHENSION

Designed to test an individual's ability to extract key numerical information and data trends from charts and tables with the aid of a calculator. Candidates are presented with a variety of question styles including true or false statements and multiple choice questions. At all levels candidates are required to review data and make a prediction or perform mathematical calculations. At Core and Professional levels the complexity of the data is increased, along with attention to detail becoming critical to calculations.



NUMERICAL REASONING

Designed to test an individual's ability to utilise a wide range of numerical reasoning skills. Candidates are required to answer questions on the following areas: number sequences, balancing equations, lateral thinking dilemmas and numerical comprehension questions. This test has progressive difficulty, with the questions becoming harder as a candidate progresses through the test.



ARITHMETIC TEST



OVERVIEW

Designed to test an individual’s mental arithmetic ability. Candidates are presented with short mathematical problems and are required to type the answer. Candidates do not require a calculator. All levels contain questions relating to: decimals, fractions, whole numbers, percentages and time. The Fundamental level, tests a candidate’s ability to do simple calculations. At Core and Professional, the difficulty is increased by raising the complexity of the numbers used.

Candidates are presented with 30 questions to complete in 15 minutes. The candidate’s responses are automatically marked and a point is awarded for each correctly answered question. Skipped questions or those that are not taken will result in no point being awarded.

Sample question
Core level



SKILLS MEASURED: TIME MANAGEMENT | NUMERICAL SKILLS | UNIT CONVERSION | MENTAL AGILITY | REASONING

TEST DETAILS



PRACTICE TEST AVAILABLE



RANDOMISED PRESENTATION



15 MINUTES ALLOWED



10 MINS AVERAGE COMPLETION TIME



30 QUESTIONS PRESENTED



240 QUESTIONS IN POOL

COMPLEMENTARY TESTS: NUMERICAL COMPREHENSION | NUMERICAL REASONING | NUMERACY



FUNDAMENTAL

In this test candidates are required to understand the principles of maths and perform simple mental arithmetic calculations with common (1-100) whole numbers.

A candidate taking the Fundamental level of a test is expected to have subject knowledge aligned to a foundation level GCSE graduate.



CORE

In this test candidates are required to understand the principles of maths and perform mental arithmetic calculations with uncommon (101+) numbers, decimals and fractions.

A candidate taking the Core level of a test is expected to have subject knowledge aligned to a higher level GCSE graduate.



PROFESSIONAL

In this test candidates are required to perform mental arithmetic calculations with complex numbers, decimals and fractions. This test builds on Core by increasing the complexity of the mathematical problems presented.

A candidate taking the Professional level of a test is expected to have subject knowledge aligned to an A-Level graduate.



NUMERACY TEST



OVERVIEW

Designed to test an individual's ability to determine the answer to numerical scenarios with the aid of a calculator. Candidates are presented with a variety of question styles including true or false statements and multiple choice questions. All levels contain questions relating to: averages, conversions, costings, decimals, fractions, percentages, ratios and time. The Fundamental level, involves performing simple calculations and using a calculator. At Core and Professional levels, the difficulty is increased by raising the complexity of the mathematical scenarios and increasing the quantity of data required to achieve a result.

Candidates are presented with 12 questions to complete in 15 minutes. The candidate's responses are automatically marked and a point is awarded for each correctly answered question. Skipped questions or those that are not taken will result in no point being awarded.

Sample question
Core level



SKILLS MEASURED: APPLICATION OF MATHEMATICAL MODELS | CALCULATING COSTING DATA | NUMERICAL SKILLS | REASONING

TEST DETAILS



PRACTICE TEST AVAILABLE



RANDOMISED PRESENTATION



15 MINUTES ALLOWED



10 MINS AVERAGE COMPLETION TIME



12 QUESTIONS PRESENTED



240 QUESTIONS IN POOL

COMPLEMENTARY TESTS: NUMERICAL COMPREHENSION | NUMERICAL REASONING | ARITHMETIC



FUNDAMENTAL

In this test candidates are required to read a short paragraph of text and perform a simple calculation or conversion with common (1-100) whole numbers.

A candidate taking the Fundamental level of a test is expected to have subject knowledge aligned to a foundation level GCSE graduate.



CORE

In this test candidates are required to read a short paragraph of text and perform a multiple stage calculation with uncommon (101+) numbers, decimals and fractions.

A candidate taking the Core level of a test is expected to have subject knowledge aligned to a higher level GCSE graduate.



PROFESSIONAL

In this test candidates are required to read a paragraph of text and perform a multiple stage calculation with complex numbers, decimals and fractions. This test builds on Core by increasing the quantity of calculations required to reach the answer and the quantity of data for interpretation.

A candidate taking the Professional level of a test is expected to have subject knowledge aligned to an A-Level graduate.



NUMERICAL COMPREHENSION TEST

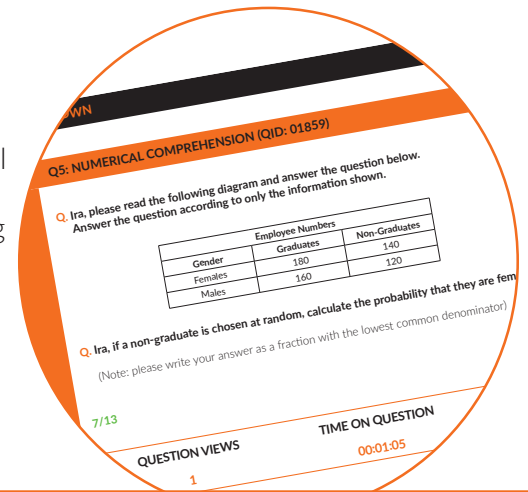


OVERVIEW

Designed to test an individual's ability to extract key numerical information and data trends from charts and tables with the aid of a calculator. Candidates are presented with a variety of question styles including true or false statements and multiple choice questions. At all levels candidates are required to review data and make a prediction or perform mathematical calculations from the data presented. At Core and Professional levels the complexity of the data is increased, along with attention to detail becoming critical to calculations.

Candidates are presented with 15 questions to complete in 15 minutes. The candidate's responses are automatically marked and a point is awarded for each correctly answered question. Skipped questions or those that are not taken will result in no point being awarded.

Sample question
Core level



SKILLS MEASURED: USE OF MATHEMATICAL DEVICES | FORECASTING DATA | IDENTIFYING KEY INFORMATION | NUMERICAL SKILLS

TEST DETAILS



PRACTICE TEST AVAILABLE



RANDOMISED PRESENTATION



15 MINUTES ALLOWED



12 MINS AVERAGE COMPLETION TIME



15 QUESTIONS PRESENTED



120 QUESTIONS IN POOL

COMPLEMENTARY TESTS: NUMERICAL REASONING | NUMERACY | ARITHMETIC



FUNDAMENTAL

In this test candidates are required to interpret a chart or table and perform a simple calculation based on data which can be directly referenced.

A candidate taking the Fundamental level of a test is expected to have subject knowledge aligned to a foundation level GCSE graduate.



CORE

In this test candidates are required to review and interpret a chart(s) or table(s) and perform a multiple stage calculation or short term forecast on data spread across a chart(s) or table(s).

A candidate taking the Core level of a test is expected to have subject knowledge aligned to a higher level GCSE graduate.



PROFESSIONAL

In this test candidates are required to interpret data gathered from multiple charts or tables and combine this information to perform a multiple stage calculation or long term forecast on data spread across charts or tables. This test builds on Core by increasing the quantity of data for interpretation and the complexity of the data presented.

A candidate taking the Professional level of a test is expected to have subject knowledge aligned to an A-Level graduate.



NUMERICAL REASONING TEST



OVERVIEW

Designed to test an individual's ability to utilise a wide range of numerical reasoning skills. Candidates are required to answer questions on the following areas: number sequences, balancing equations, lateral thinking dilemmas and numerical comprehension questions. Questions are presented in a variety of question formats including: manual answer boxes and multiple choice questions. This test has progressive difficulty, with questions becoming harder as a candidate progresses through the test.

Candidates are presented with 30 questions to complete in 15 minutes. The first 10 questions are at Fundamental level, questions 11 to 20 are at Core level and the final 10 questions are at Professional level. The candidate's responses are automatically marked and a point is rewarded for each correctly answered question. Skipped questions or those that are not taken will result in no point being awarded.

Sample question
Core level



SKILLS MEASURED: DEDUCTION | MENTAL AGILITY | LATERAL THINKING | LOGIC & REASONING | NUMERICAL COMPREHENSION

TEST DETAILS



PRACTICE TEST AVAILABLE



PROGRESSIVE DIFFICULTY



FIXED QUESTION ORDER



30 MINUTES ALLOWED



30 QUESTIONS PRESENTED



30 QUESTIONS IN POOL

COMPLEMENTARY TESTS: NUMERICAL COMPREHENSION | VERBAL REASONING | NUMERACY | ARITHMETIC



FUNDAMENTAL
Questions 1-10

At this level candidates are required to deduce from the information shown, an answer from the multiple choice selections available.

A candidate taking the Fundamental level of a test is expected to have subject knowledge aligned to a foundation level GCSE graduate.



CORE
Questions 11-20

At this level candidates are required to solve more complex problems and are given an answer box to manually enter an answer.

A candidate taking the Core level of a test is expected to have subject knowledge aligned to a higher level GCSE graduate.



PROFESSIONAL
Questions 21-30

At this level candidates are required to solve problems which require advanced mathematical and logic abilities and are given an answer box to manually enter an answer.

A candidate taking the Professional level of a test is expected to have subject knowledge aligned to an A-Level graduate.