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# Question Paper Brief

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**Higher Mathematics**

**C747 76**

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# Question Paper Brief — Higher Mathematics

The Course assessment consists of two question papers which will assess:

- ◆ the development of mathematical operational skills beyond the minimum competence required for the Units
- ◆ the integration of mathematical operational skills developed across the Units
- ◆ the development of mathematical reasoning skills beyond the minimum competence required for the Units
- ◆ the application of skills without the aid of a calculator in order to demonstrate that the candidate has an underlying grasp of mathematical concepts and processes

The question papers will sample the 'Further mandatory information on Course Coverage' in the *Course Assessment Specification*. This sample will draw on all of the skills, knowledge and understanding from each of the following areas:

- ◆ numerical skills
- ◆ algebraic skills
- ◆ geometric skills
- ◆ trigonometric skills
- ◆ calculus skills
- ◆ reasoning skills

Command words are the verbs or verbal phrases used in questions and tasks which ask candidates to demonstrate specific skills, knowledge or understanding. For examples of some of the command words used in this assessment, refer to [Past Papers, the Specimen Question Paper and the Exemplar Question Paper](#).

The Course assessment will consist of two question papers:

	<b>Paper 1 (non-calculator)</b>	<b>Paper 2</b>
<b>Time</b>	70 minutes	90 minutes
<b>Marks</b>	60	70
<b>Skills</b>	<p>This question paper will give candidates an opportunity to apply numerical, algebraic, geometric, trigonometric, calculus and reasoning skills, <b>without the aid of a calculator</b>, specified in the table provided in the 'Further mandatory information on Course coverage' section at the end of the <i>Course Assessment Specification</i>.</p> <p>These skills are those in which the candidate is required to show an understanding of underlying processes. They will involve the ability to use these skills within mathematical contexts in cases where a calculator may compromise the assessment of this understanding.</p>	<p>This question paper will give candidates an opportunity to apply numerical, algebraic, geometric, trigonometric, calculus and reasoning skills specified in the table provided in the 'Further mandatory information on Course coverage' section at the end of the <i>Course Assessment Specification</i>.</p> <p>These skills are those which may be facilitated by the use of a calculator, allowing more opportunity for application and reasoning.</p>
<b>Percentage of marks across the papers</b>	<p>Approximately 30–45% of the overall marks relate to algebra.            Approximately 15–35% of the overall marks relate to geometry.            Approximately 15–40% of the overall marks relate to calculus.            Approximately 10–25% of the overall marks relate to trigonometry.</p>	
<b>Type of question</b>	Short answer and extended response	Short answer and extended response
<b>Type of question paper</b>	Semi-structured question papers: separate question paper and separate answer booklet. The <a href="#">answer booklet</a> is structured with spaces for answers.	
<b>Proportion of level 'C' questions</b>	Some questions will use a stepped approach to ensure that there are opportunities for candidates to demonstrate their abilities beyond level 'C'. Approximately 65% of marks will be available for level 'C' responses.	
<b>Balance of skills</b>	Operational and reasoning skills will be assessed in both question papers. Some questions will assess only operational skills (approximately 65% of marks), but other questions will require both operational and reasoning skills (approximately 35% of marks).	