

## STAGE 1 MATHEMATICAL APPLICATIONS

### SKILLS AND APPLICATIONS TASK 1

#### Purpose

To demonstrate your ability to:

- accurately apply the mathematical concepts, processes, and strategies that you have learned in class to solve a range of trigonometry and measurement problems.
- effectively and appropriately communicate relevant mathematical information within your solutions.

#### Description of assessment

This assessment allows you to show your skills in understanding and appropriate use of the mathematical concepts, processes, and strategies in the following:

- (a) Subtopic 8.2: Right-angled Triangle Geometry
- (b) Subtopic 8.3: Areas of non-right Triangles and Related Compound Shapes
- (c) Subtopic 2.5: Perimeter and Area

#### Assessment conditions

This is a supervised assessment. Provide complete working for all calculations. Use electronic technology where appropriate. You may have one side of one A5 page of hand-written notes.

Learning Requirements	Assessment Design Criteria	Capabilities
<ol style="list-style-type: none"> <li>1. Understand mathematical concepts and relationships, making use of electronic technology where appropriate to aid and enhance understanding.</li> <li>2. Identify, collect, and organise mathematical information relevant to investigating and finding solutions to questions/problems taken from social, scientific, economic, or historical contexts.</li> <li>3. Recognise and apply the mathematical techniques needed when analysing and finding a solution to a question/problem in context.</li> <li>4. Interpret results, draw conclusions, and reflect on the reasonableness of these in the context of the question/problem.</li> <li>5. Communicate mathematical reasoning and ideas using appropriate language and representations.</li> <li>6. Work both independently and cooperatively in planning, organising, and carrying out mathematical activities.</li> </ol>	<p><b>Mathematical Knowledge and Skills and Their Application</b> The specific features are as follows:</p> <ul style="list-style-type: none"> <li>• MKSA1 Knowledge of content and understanding of mathematical concepts and relationships.</li> <li>• MKSA2 Use of mathematical algorithms and techniques (implemented electronically where appropriate) to find solutions to routine and complex questions.</li> <li>• MKSA3 Application of knowledge and skills to answer questions set in applied and theoretical contexts.</li> </ul> <p><b>Mathematical Modelling and Problem-solving</b> The specific features are as follows:</p> <ul style="list-style-type: none"> <li>• MMP1 Application of mathematical models.</li> <li>• MMP2 Development of solutions to mathematical problems set in applied and theoretical contexts.</li> <li>• MMP3 Interpretation of the mathematical results in the context of the problem.</li> <li>• MMP4 Understanding of the reasonableness and possible limitations of the interpreted results, and recognition of assumptions made.</li> </ul> <p><b>Communication of Mathematical Information</b> The specific features are as follows:</p> <ul style="list-style-type: none"> <li>• CMI1 Communication of mathematical ideas and reasoning to develop logical arguments.</li> <li>• CMI2 Use of appropriate mathematical notation, representations, and terminology.</li> </ul>	<p><b>Communication</b> Citizenship Personal Development Work <b>Learning</b></p>

# Stage Mathematical Applications Revision Guide

**Clifford Lane**



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