Directions
Do not write in this book during perusal time.
You must:
• cross out any draft work that is not to be assessed
• show all working using appropriate and accurate mathematical terms and symbols
• show sufficient working to justify your responses.

After the examination session
The supervisor will collect this book when you leave.

Candidate use
Print your candidate number here

Marker use only
Criterion Standard awarded
Communication and justification (CJ)
Knowledge and procedures (KP)
Modelling and problem solving (MP)

Supervisor use only
Supervisor’s initials

QCAA use only
Marker number

Marker use only

<table>
<thead>
<tr>
<th>Modelling and problem solving (MP)</th>
<th>Complexity/initiative increasing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Question</td>
<td>3a</td>
</tr>
<tr>
<td>Result</td>
<td></td>
</tr>
</tbody>
</table>

For all Queensland schools
Question 2a

Not to scale

A

S

B

N

Question 2e
Question 2f
This chart is not to be used for navigation purposes.

Ballina Head

Question 4a
This chart is not to be used for navigation purposes.
Question 4a – spare

This chart is not to be used for navigation purposes.

Ballina Head
This chart is not to be used for navigation purposes.