

Instrument-specific marking guide (IA1)

Formulate	Marks
The student response has the following characteristics:	
<ul style="list-style-type: none"> justified statements of important assumptions justified statements of important observations justified mathematical translation of important aspects of the task 	3–4
<ul style="list-style-type: none"> statement of a relevant assumption statement of a relevant observation mathematical translation of an aspect of the task. 	1–2
The student response does not match any of the descriptors above.	0

Solve	Marks
The student response has the following characteristics:	
<ul style="list-style-type: none"> accurate use of mathematical knowledge for important aspects of the task efficient use of technology a complete solution 	6–7
<ul style="list-style-type: none"> use of mathematical knowledge for an important aspect of the task use of technology substantial progress towards a solution 	4–5
<ul style="list-style-type: none"> simplistic use of mathematical knowledge relevant to the task simplistic use of technology progress towards a solution 	2–3
<ul style="list-style-type: none"> inappropriate use of mathematical knowledge or technology. 	1
The student response does not match any of the descriptors above.	0

Evaluate	Marks
The student response has the following characteristics:	
<ul style="list-style-type: none"> • verified results • justified statements about the reasonableness of the solution by considering the assumptions • justified statements about the reasonableness of the solution by considering the observations • justified statements of relevant strengths of the solution • justified statements of relevant limitations of the solution 	4–5
<ul style="list-style-type: none"> • a verified result • statement about the reasonableness of the solution by considering an assumption or observation • statement of a relevant strength or relevant limitation of the solution 	2–3
<ul style="list-style-type: none"> • statement about the reasonableness of a result or the solution • statement of a strength or limitation. 	1
The student response does not match any of the descriptors above.	0

Communicate	Marks
The student response has the following characteristics:	
<ul style="list-style-type: none"> • correct use of appropriate mathematical language • logical organisation of the response, which can be read independently of the task sheet • justification of decisions using mathematical reasoning 	3–4
<ul style="list-style-type: none"> • use of some appropriate mathematical language • adequate organisation of the response • statement of a relevant decision. 	1–2
The student response does not match any of the descriptors above.	0