

Mathematics: Example B



[Student work \(PDF\)](#)



[RPPF \(PDF\)](#)

Extended essay: Example commentary			
Subject	Mathematics	WSEE theme (if applicable):	
Category for language essays (if applicable):		Subjects used for WSEE (if applicable):	
Title of essay:	Line Stitching and Area: How to find the area underneath a polygon when two adjacent sides of a square are divided into n equal parts and the corresponding points on two sides are connected.		
Research question:	How to measure the area underneath the line segments obtained through connecting points of $n(n \in \mathbb{Z}^+)$ equal sections accordingly from two adjacent sides of a unit square?		
Assessment details			
Criterion	Mark awarded	Commentary	

<p>A: Focus and method</p> <p>[Maximum possible mark: 6]</p>	<p>5</p>	<p>The issue of research is appropriately connected to the discussion in the essay. An appropriate method has been selected in relation to the topic and research question. There is evidence of effective and informed selection of sources. The student goes beyond the scope of the research question, which could be rephrased to accommodate this.</p>
<p>B: Knowledge and understanding</p> <p>[Maximum possible mark: 6]</p>	<p>6</p>	<p>Knowledge and understanding are excellent and appropriate to the research question. The use of subject-specific terminology and concepts is accurate and consistent.</p>
<p>C: Critical thinking</p> <p>[Maximum possible mark: 12]</p>	<p>10</p>	<p>The research is analysed effectively and clearly focused on the research question; the inclusion of less relevant research does not significantly detract from the quality of the overall analysis. Conclusions to individual points of analysis are effectively supported by the evidence. The reasoned argument is well structured and coherent.</p>
<p>D: Presentation</p> <p>[Maximum possible mark: 4]</p>	<p>4</p>	<p>Presentation is good. The structure and layout support the reading, understanding and evaluation of the essay.</p>
<p>E: Engagement</p> <p>[Maximum possible mark: 6]</p>	<p>5</p>	<p>Very good reflections on decision-making and planning. These are evaluative and include reference to the student's capacity to consider actions and ideas in response to challenges experienced in the research process. There is a high degree of intellectual and personal engagement.</p>
<p>Total marks awarded</p>	<p>30/34</p>	