

## Example 7: Bayes' Theorem and baseball

**Subject:** Mathematics: analysis and approaches and mathematics: applications and interpretation

**Paper component:** Internal assessment, standard level (SL) and higher level (HL)

### Assessment

Criterion	A	B	C	D	E (SL)	E (HL)	Total (SL)	Total (HL)
Achievement level awarded	2	2	1	1	4	3	10	9
Maximum possible achievement level	4	4	3	3	6	6	20	20

### Comments

Criterion	Comments
A Presentation	The presentation is not very coherent and is difficult to follow.
B Mathematical communication	The candidate attempts to use correct mathematical notation and terminology, unfortunately not always successfully.
C Personal engagement	Some personal engagement is noted but it is not authentic and the candidate's voice does not come across as having been very engaged with understanding how Bayes's Theorem works. The work merely substitutes values into a formula.
D Reflection	Some limited reflection is noted towards the end of the exploration, and at the start when candidate mentions variables.
E Use of mathematics SL	The mathematics is beyond the level of the course and is partially correct. The candidate demonstrates some understanding.
E Use of mathematics HL	Best fit used to award E3. The mathematics is commensurate with the level of the course and is partially correct. Some knowledge and understanding is demonstrated.
General comments	