

Mark scheme for Problem Solving reports

Client report (25 marks)

Justified solution for all 12 museums (4 marks)

Quality of diagrams (2 marks)

Assumptions (3 marks)

Limitations of solution (incl. What changes of circumstances will render analysis inaccurate) (3 marks)

Appropriate to the audience (4 marks)

Inclusion of high level mathematical content/proofs (loses 5 marks)

Headings and subheadings with enumeration using modified decimal system (1 mark)

Figures numbered with title and referred to in text (1 mark)

Page numbering (1 mark)

Design (graphics, white space, etc.) (3 marks)

Harvard referencing (3 marks)

Mathematical report (25 marks)

Methods for 4 types of museum – regular, orthogonal, rooms and holes (4 marks)

Critical analysis of the limitations of the model (6 marks)

Realism (3 marks)

Extension of original problem (5 marks)

Inclusion of mathematical proofs (loses 5 marks)

Refer specifically to client's museums (loses 3 marks)

Not in third person (loses 5 marks)

Headings and subheadings with enumeration using modified decimal system (1 mark)

Figures numbered with title and referred to in text (1 mark)

Page numbering (1 mark)

Design (graphics, white space, etc.) (1 mark)

Harvard referencing (3 marks)