Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mark\_\_\_\_\_\_/35

**Interpret the task and gather the key information**

|  |  |
| --- | --- |
| Introductory statement about what the report will cover | 2 marks |

**Identify the mathematics which could help to complete the task**

|  |  |
| --- | --- |
| Statement about the key information needed to complete the task   * 2 scaled furniture layout options * area of floor space used * ensure 80cm wide pathway * requirements (5 ppl living; 4ppl dining; area/dimensions of room; furniture requirements noted on task sheet) | 4 marks |

**Analyse information and data from a variety of sources**

|  |  |
| --- | --- |
| Reference within report body of how furniture was obtained | 1 mark |
| Reference section included | 1 mark |

**Apply their existing mathematical knowledge and strategies to obtain a solution**

|  |  |
| --- | --- |
| Report lists measurements/dimensions of furniture | 2 marks |
| Report outlines total area of furniture | 2 marks |
| Calculation of total remaining floor space | 2 marks |
| Report shows stepwise calculations of area of furniture | 2 marks |
| Furniture is represented on scale drawing with appropriate geometric convention | 2 marks |
| Furniture is represented on scale drawing correctly scaled | 2 marks |
| Two rooms are drawn to scale on scale drawing following plan on task sheet | 2 marks |
| Scale key noted | 1 mark |
| At least 80cm (drawn to scale) pathway in all two arrangements has been noted | 4 marks |

**Verify the reasonableness of the solution**

|  |  |
| --- | --- |
| Statement that summarises any difficulties in completing task | 1 mark |
| Statement about which arrangement is the better option giving reasons | 2 marks |

**Communicate findings in a systematic and concise manner.**

|  |  |
| --- | --- |
| Ruler used in completing scale drawings | 1 mark |
| Labels/key used to aid with reading of scaled drawings | 1 mark |
| Report set out in neat/logical format | 2 marks |
| Concluding statement | 1 mark |