# Grade Boundaries:

# May/June 2019 GCE Mathematics (2017) Examinations

The tables below give the lowest raw marks for the award of the stated grade.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AS Further Mathematics | **A** | **B** | **C** | **D** | **E** |
| Core Pure Mathematics, Further Pure Mathematics 1 & 2 | 98 | 84 | 70 | 56 | 42 |
| Core Pure Mathematics, Further Pure Mathematics 1, Further Statistics 1 | 101 | 86 | 72 | 58 | 44 |
| Core Pure Mathematics, Further Pure Mathematics 1, Further Mechanics 1 | 98 | 84 | 70 | 56 | 43 |
| Core Pure Mathematics, Further Pure Mathematics 1, Decision Mathematics 1 | 98 | 84 | 70 | 56 | 42 |
| Core Pure Mathematics, Further Statistics 1, Mechanics 1 | 100 | 86 | 72 | 58 | 45 |
| Core Pure Mathematics, Further Statistics 1, Decision Mathematics 1 | 100 | 86 | 72 | 58 | 44 |
| Core Pure Mathematics, Further Statistics 1 & 2 | 99 | 85 | 71 | 58 | 45 |
| Core Pure Mathematics, Further Mechanics 1 Decision Mathematics 1 | 97 | 83 | 69 | 56 | 43 |
| Core Pure Mathematics, Further Mechanics 1 & 2 | 93 | 80 | 67 | 54 | 42 |
| Core Pure Mathematics, Decision Mathematics 1 & 2 | 96 | 82 | 68 | 54 | 41 |

Marks for AS Further Mathematics combinations are out of a total of 200 marks.

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| --- | --- | --- | --- | --- | --- | --- |
| A level Further Mathematics | **A\*** | **A** | **B** | **C** | **D** | **E** |
| Core Pure Mathematics 1 & 2, Further Pure Mathematics 1 & 2 | 235 | 197 | 163 | 129 | 96 | 63 |
| Core Pure Mathematics 1 & 2, Further Pure Mathematics 1, Further Statistics 1 | 237 | 199 | 165 | 131 | 98 | 65 |
| Core Pure Mathematics 1 & 2, Further Pure Mathematics 1, Further Mechanics 1 | 242 | 200 | 167 | 134 | 101 | 68 |
| Core Pure Mathematics 1 & 2, Further Pure Mathematics 1, Decision Mathematics 1 | 234 | 196 | 163 | 131 | 99 | 67 |
| Core Pure Mathematics 1 & 2, Further Statistics 1, Further Mechanics 1 | 238 | 199 | 165 | 132 | 99 | 66 |
| Core Pure Mathematics 1 & 2, Further Statistics1, Decision Mathematics 1 | 230 | 195 | 162 | 129 | 97 | 65 |
| Core Pure Mathematics 1 & 2, Further Statistics 1 & 2 | 239 | 201 | 167 | 133 | 99 | 65 |
| Core Pure Mathematics 1 & 2, Further Mechanics 1, Decision Mathematics 1 | 231 | 196 | 164 | 132 | 100 | 68 |
| Core Pure Mathematics 1 & 2, Further Mechanics 1 & 2 | 248 | 203 | 169 | 135 | 102 | 69 |
| Core Pure Mathematics 1 & 2, Decision Mathematics 1 & 2 | 229 | 191 | 158 | 126 | 94 | 62 |

Marks for A level Further Mathematics combinations are out of a total of 300 marks.

The tables below give the lowest raw marks for the award of the notional component grade for the papers comprising the qualification. All grade boundaries shown in shaded columns are those decided by examiners; all others are nominal and decided arithmetically.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AS Further Mathematics | **A** | **B** | **C** | **D** | **E** |
| Paper 1 Core Pure Mathematics | 49 | 41 | 33 | 25 | 18 |
| Paper 21 Further Pure Mathematics 1 | 25 | 21 | 18 | 15 | 12 |
| Paper 22 Further Pure Mathematics 2 | 24 | 21 | 18 | 15 | 12 |
| Paper 23 Further Statistics 1 | 27 | 23 | 20 | 17 | 14 |
| Paper 24 Further Statistics 2 | 23 | 20 | 18 | 15 | 13 |
| Paper 25 Further Mechanics 1 | 24 | 21 | 18 | 15 | 13 |
| Paper 26 Further Mechanics 2 | 20 | 17 | 15 | 13 | 11 |
| Paper 27 Decision Mathematics 1 | 24 | 21 | 18 | 15 | 12 |
| Paper 28 Decision Mathematics 2 | 23 | 20 | 17 | 14 | 11 |

Core Pure Mathematics papers are out of 80 marks; all other papers are each out of 40 marks.

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| --- | --- | --- | --- | --- | --- | --- |
| A level Further Mathematics | **A\*** | **A** | **B** | **C** | **D** | **E** |
| Paper 1 Core Pure Mathematics 1 | 58 | 49 | 40 | 31 | 23 | 15 |
| Paper 2 Core Pure Mathematics 2 | 57 | 45 | 37 | 29 | 21 | 14 |
| Paper 3A Further Pure Mathematics 1 | 62 | 53 | 44 | 35 | 27 | 19 |
| Paper 4A Further Pure Mathematics 2 | 59 | 50 | 41 | 32 | 23 | 15 |
| Paper 3B Further Statistics 1 | 61 | 52 | 43 | 34 | 25 | 17 |
| Paper 4B Further Statistics 2 | 64 | 55 | 46 | 37 | 28 | 19 |
| Paper 3C Mechanics 1 | 62 | 53 | 44 | 36 | 28 | 20 |
| Paper 4C Mechanics 2 | 65 | 56 | 47 | 38 | 29 | 20 |
| Paper 3D Decision Mathematics 1 | 57 | 49 | 41 | 33 | 26 | 19 |
| Paper 4D Decision Mathematics 2 | 57 | 48 | 39 | 30 | 22 | 14 |

A level Further Mathematics papers are each out of a total of 75 marks.

# Provisional Pass Rate Data:

# May/June 2019 GCE Mathematics (2017) Examinations

The percentage of candidates obtaining each grade at the time of grading are given below (the final figures may vary slightly from these).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AS Further Mathematics | **Number sitting** | **A** | **B** | **C** | **D** | **E** |
| Core Pure Mathematics, Further Pure Mathematics 1 & 2 | 30 | 33.3 | 59.3 | 81.5 | 88.9 | 92.6 |
| Core Pure Mathematics, Further Pure Mathematics 1, Further Statistics 1 | 73 | 62.3 | 72.5 | 87.0 | 92.8 | 95.7 |
| Core Pure Mathematics, Further Pure Mathematics 1, Further Mechanics 1 | 458 | 59.7 | 74.8 | 87.1 | 91.9 | 96.1 |
| Core Pure Mathematics, Further Pure Mathematics 1, Decision Mathematics 1 | 140 | 36.2 | 53.1 | 70.8 | 82.3 | 95.4 |
| Core Pure Mathematics, Further Statistics 1, Mechanics 1 | 964 | 52.9 | 71.2 | 83.5 | 90.3 | 94.8 |
| Core Pure Mathematics, Further Statistics1, Decision Mathematics 1 | 464 | 35.4 | 55.9 | 74.4 | 87.0 | 94.9 |
| Core Pure Mathematics, Further Statistics 1 & 2 | 32 | 59.4 | 68.8 | 84.4 | 90.6 | 93.8 |
| Core Pure Mathematics, Further Mechanics 1 Decision Mathematics 1 | 619 | 42.1 | 62.5 | 78.1 | 87.6 | 93.1 |
| Core Pure Mathematics, Further Mechanics 1 & 2 | 166 | 40.4 | 57.8 | 74.7 | 84.9 | 92.2 |
| Core Pure Mathematics, Decision Mathematics 1 & 2 | 174 | 36.0 | 55.3 | 72.0 | 86.0 | 90.0 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| A level Further Mathematics | **Number sitting** | **A\*** | **A** | **B** | **C** | **D** | **E** |
| Core Pure Mathematics, Further Pure Mathematics 1 & 2 | 205 | 23.2 | 47.0 | 67.6 | 84.9 | 91.4 | 94.1 |
| Core Pure Mathematics, Further Pure Mathematics 1, Further Statistics 1 | 297 | 18.9 | 46.6 | 72.2 | 85.1 | 94.0 | 97.9 |
| Core Pure Mathematics, Further Pure Mathematics 1, Further Mechanics 1 | 1409 | 25.0 | 57.9 | 77.2 | 88.0 | 95.4 | 97.9 |
| Core Pure Mathematics, Further Pure Mathematics 1, Decision Maths 1 | 420 | 12.7 | 42.7 | 63.0 | 77.7 | 87.8 | 95.5 |
| Core Pure Mathematics, Further Statistics 1, Mechanics 1 | 2731 | 26.6 | 57.3 | 77.6 | 89.4 | 96.0 | 98.5 |
| Core Pure Mathematics, Further Statistics1, Decision Mathematics 1 | 719 | 22.6 | 47.9 | 69.0 | 86.4 | 96.0 | 98.5 |
| Core Pure Mathematics, Further Statistics 1 & 2 | 46 | 29.6 | 65.9 | 72.7 | 88.6 | 93.2 | 93.2 |
| Core Pure Mathematics, Further Mechanics 1 Decision Mathematics 1 | 2094 | 21.4 | 48.2 | 69.3 | 83.8 | 93.2 | 98.2 |
| Core Pure Mathematics, Further Mechanics 1 & 2 | 695 | 26.9 | 59.4 | 76.7 | 87.9 | 94.5 | 98.3 |
| Core Pure Mathematics, Decision Mathematics 1 & 2 | 339 | 12.6 | 37.4 | 62.6 | 78.7 | 90.0 | 96.8 |



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| --- | --- | --- | --- | --- | --- | --- | --- |
| **AS Further Mathematics 8FM0 – June 2019** | | | | | | | |
| **Centre Type** | | **No of Cands** | **Cumulative Percentage by Grade** | | | | |
| **A** | **B** | **C** | **D** | **E** |
| **1** | Secondary Comprehensive - LEA | 367 | 39.8 | 58.3 | 77.1 | 87.2 | 92.4 |
| **2** | Secondary Selective - LEA | 73 | 56.2 | 68.5 | 83.6 | 91.8 | 98.6 |
| **3** | Secondary Modern - LEA | 11 | 45.5 | 72.7 | 72.7 | 81.8 | 90.9 |
| **4** | Comprehensive - GMT | 66 | 37.9 | 56.1 | 66.7 | 83.3 | 89.4 |
| **5** | Secondary Selective - GMT | 31 | 45.2 | 77.4 | 93.5 | 100.0 | 100.0 |
| **6** | Secondary Modern - GMT | 7 | 0.0 | 14.3 | 42.9 | 71.4 | 85.7 |
| **7** | Independent | 256 | 56.6 | 75.0 | 85.9 | 91.0 | 95.7 |
| **8** | FE Establishment | 64 | 29.7 | 51.6 | 65.6 | 75.0 | 84.4 |
| **9** | Sixth Form College | 435 | 42.5 | 58.6 | 76.6 | 88.7 | 96.1 |
| **10** | Tertiary College | 131 | 38.9 | 60.3 | 74.8 | 84.7 | 90.8 |
| **11** | Other | 21 | 28.6 | 42.9 | 71.4 | 71.4 | 76.2 |
| **13** | City Academies | 1616 | 49.8 | 68.2 | 81.7 | 89.0 | 94.4 |
| **14** | Free School | 39 | 38.5 | 61.5 | 74.4 | 82.1 | 94.9 |
| **15** | Total Schools | 2901 | 47.6 | 65.7 | 80.4 | 88.8 | 94.6 |
| **16** | Total FE | 195 | 35.9 | 57.4 | 71.8 | 81.5 | 88.7 |
| **17** | **Grand Total** | **3117** | **46.7** | **65.1** | **79.8** | **88.2** | **94.1** |

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| --- | --- | --- | --- | --- | --- | --- |
| **AS Further Mathematics 8FM0 – June 2019** | | | | | | |
| **Centre Type** | **No of Cands** | **Cumulative Percentage by Grade** | | | | |
| **A** | **B** | **C** | **D** | **E** |
| Year 14+ | 90 | 38.9 | 56.7 | 77.8 | 87.8 | 95.6 |
| Year 13 | 810 | 53.5 | 70.7 | 82.8 | 89.8 | 94.6 |
| Year 12 | 2205 | 44.6 | 63.4 | 78.7 | 87.7 | 93.8 |
| Year 11 | 9 | 44.4 | 66.7 | 88.9 | 100.0 | 100.0 |
| Year 10 | 3 | 33.3 | 33.3 | 66.7 | 66.7 | 66.7 |
| **Grand Total** | **3117** | **46.7** | **65.1** | **79.8** | **88.2** | **94.1** |

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| --- | --- | --- | --- | --- | --- | --- |
| **AS Further Mathematics 8FM0 – June 2019** | | | | | | |
| **Sex** | **No of Cands** | **Cumulative Percentage by Grade** | | | | |
| **A** | **B** | **C** | **D** | **E** |
| Female | 1068 | 48.0 | 67.9 | 83.2 | 90.4 | 94.8 |
| Male | 2048 | 46.0 | 63.6 | 77.9 | 87.1 | 93.7 |
| Not known | 1 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| **Grand Total** | **3117** | **46.7** | **65.1** | **79.8** | **88.2** | **94.1** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A level Further Mathematics 9FM0 – June 2019** | | | | | | | | |
| **Centre Type** | | **No of Cands** | **Cumulative Percentage by Grade** | | | | | |
| **A\*** | **A** | **B** | **C** | **D** | **E** |
| **1** | Secondary Comprehensive - LEA | 1028 | 20.4 | 47.0 | 67.7 | 83.8 | 93.8 | 98.2 |
| **2** | Secondary Selective - LEA | 368 | 28.0 | 54.6 | 77.4 | 88.6 | 97.3 | 99.7 |
| **3** | Secondary Modern - LEA | 23 | 13.0 | 39.1 | 56.5 | 60.9 | 82.6 | 95.7 |
| **4** | Comprehensive - GMT | 173 | 13.9 | 51.4 | 72.8 | 85.0 | 91.3 | 95.4 |
| **5** | Secondary Selective - GMT | 86 | 31.4 | 55.8 | 84.9 | 93.0 | 95.3 | 97.7 |
| **6** | Secondary Modern - GMT | 1 | 0.0 | 0.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| **7** | Independent | 2371 | 27.7 | 60.4 | 80.6 | 90.6 | 95.7 | 98.3 |
| **8** | FE Establishment | 133 | 8.3 | 24.1 | 41.4 | 65.4 | 82.7 | 87.2 |
| **9** | Sixth Form College | 986 | 21.6 | 49.3 | 70.5 | 85.2 | 93.6 | 97.9 |
| **10** | Tertiary College | 112 | 9.8 | 34.8 | 56.3 | 71.4 | 81.3 | 90.2 |
| **11** | Other | 120 | 12.5 | 35.8 | 45.0 | 60.0 | 70.0 | 80.8 |
| **13** | City Academies | 3428 | 22.7 | 51.4 | 71.2 | 85.2 | 94.1 | 98.0 |
| **14** | Free School | 93 | 20.4 | 45.2 | 68.8 | 87.1 | 91.4 | 95.7 |
| **15** | Total Schools | 8557 | 23.8 | 53.2 | 73.7 | 86.7 | 94.5 | 98.1 |
| **16** | Total FE | 245 | 9.0 | 29.0 | 48.2 | 68.2 | 82.0 | 88.6 |
| **17** | **Grand Total** | **8922** | **23.2** | **52.3** | **72.6** | **85.8** | **93.8** | **97.6** |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **A level Further Mathematics 9FM0 – June 2019** | | | | | | | |
| **Age Group** | **No of Cands** | **Cumulative Percentage by Grade** | | | | | |
| **A\*** | **A** | **B** | **C** | **D** | **E** |
| Year 14+ | 911 | 14.6 | 40.1 | 58.3 | 71.8 | 83.5 | 92.1 |
| Year 13 | 7875 | 24.0 | 53.5 | 74.1 | 87.4 | 95.0 | 98.2 |
| Year 12 | 130 | 35.4 | 63.8 | 80.8 | 87.7 | 96.2 | 99.2 |
| Year 11 | 4 | 50.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| Year 9– | 2 | 0.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| **Grand Total** | **8922** | **23.2** | **52.3** | **72.6** | **85.8** | **93.8** | **97.6** | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **A level Further Mathematics 9FM0 – June 2019** | | | | | | | |
| **Sex** | **No of Cands** | **Cumulative Percentage by Grade** | | | | | |
| **A\*** | **A** | **B** | **C** | **D** | **E** |
| Female | 2686 | 20.7 | 50.3 | 73.0 | 86.4 | 93.8 | 97.5 |
| Male | 6233 | 24.3 | 53.2 | 72.5 | 85.6 | 93.8 | 97.7 |
| Not known | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 66.7 | 66.7 |
| **Grand Total** | **8922** | **23.2** | **52.3** | **72.6** | **85.8** | **93.8** | **97.6** | |