

**Support Guide for Maths**





**Secure**

**Mock 4**

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| Foundation | Paper 1 | Secure Mock 4 |

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|  | **Marks** | **Skills** | **MathsWatch** |
| **1** | 1 | Ordering decimals | 3 |
| **2** | 1 | Writing a fraction as a decimal | 84 85 |
| **3** | 1 | BIDMAS BODMAS | 75 |
| **4** | 1 | Changing between metric units | 112 |
| **5** | 1 | Cancelling down fractions | 24 |
| **6** | 1 | Doubling and halving numbers |  |
| **7** | 3 | Averages | 62 |
| **8** | 4 | Coordinates, area of a triangle | 8 54 |
| **9** | 2 | Prime numbers | 28 |
| **10** | 2 | Angles | 45 |
| **11** | 3 | Scales on maps | 38 |
| **12** | 3 | Problem solving : money | 22a |
| **13** | 4 | Problem solving : area & money | 22a 53 |
| **14** | 3 | Problem solving : time and money | 22a |
| **15** | 2 | Transformations | 48 |
| **16** | 2 | Using scale picture | 38 |
| **17** | 5 | Plotting straight line graph | 96 |
| **18** | 4 | + - x ÷ fractions | 71a 73 74 |
| **19** | 4 | Forming and solving equations | 137 |
| **20** | 4 | Distance, speed time | 142 |
| **21** | 3 | Product of prime factors | 78 |
| **22** | 4 | Probability : relative frequency | 125 |
| **23** | 2 | Finding errors in graphs |  |
| **24** | 2 | Describing transformations | 49 |
| **25** | 3 | Loci | 165 |
| **26** | 3 | Probability | 59 |
| **27** | 2 | Plans and elevations | 51 |
| **28** | 5 | Problem solving : time & estimation | 91 |
| **29** | 3 | Density | 142 |
| **30** | 2 | Solve inequality | 139 |

Notes

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| Foundation | Paper 2 | Secure Mock 4 |

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|  | **Marks** | **Skills** | **MathsWatch** |
| **1** | 1 | Writing a decimal as a percentage | 85 |
| **2** | 1 | Multiples | 28 |
| **3** | 1 | Writing a ratio | 38 |
| **4** | 1 | Fractions of amounts | 72 |
| **5** | 2 | Accurate drawing | 46b |
| **6** | 2 | Forming and solving an equation | 137 |
| **7** | 6 | Dual bar chart | 15 |
| **8** | 3 | Solving equations | 135 |
| **9** | 4 | Ratio | 38 |
| **10** | 4 | Forming and solving an equation | 137 |
| **11** | 2 | Substitution | 95 |
| **12** | 3 | Probability | 58 69 |
| **13** | 4 | Features of conversion graphs | 38 |
| **14** | 4 | Problem solving : proportion and money | 42 |
| **15** | 1 | + - x ÷ fractions | 71 73 74 |
| **16** | 3 | Percentages of amounts | 86 |
| **17** | 4 | Angles | 120 121 122 |
| **18** | 3 | Exchange rates | 105 |
| **19** | 2 | Ratio part : whole | 106 |
| **20** | 5 | Venn diagram | 127 185 |
| **21** | 3 | Pythagoras | 150 |
| **22** | 4 | Standard form | 83 |
| **23** | 3 | Compound depreciation | 164 |
| **24** | 5 | Problem solving : area of circle & trapezium | 56 117 |
| **25** | 3 | Problem solving : inverse proportion | 42 |
| **26** | 1 | Lower and upper bounds | 132 |
| **27** | 3 | Factorise, expand double brackets | 94 134b |

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| Foundation | Paper 3 | Secure Mock 4 |

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|  | **Marks** | **Skills** | **MathsWatch** |
| **1** | 1 | Rounding to the nearest 100 | 31 |
| **2** | 1 | Writing a percentage as a decimal | 85 |
| **3** | 1 | Changing between metric units | 112 |
| **4** | 2 | Probability scales | 14 |
| **5** | 2 | Time |  |
| **6** | 3 | Problems solving : arithmetic | 17 19 |
| **7** | 2 | Analysing line graphs | 107 |
| **8** | 3 | Perimeter | 52 |
| **9** | 3 | Simplifying algebra | 33 |
| **10** | 2 | Construction | 47 |
| **11** | 3 | Forming and solving equations | 137 |
| **12** | 3 | Stem and leaf | 128b |
| **13** | 4 | Angles | 121 122 |
| **14** | 3 | Problem solving : fractions of amounts | 72 |
| **15** | 3 | Rates of change |  |
| **16** | 4 | Frequency tree | 57 |
| **17** | 3 | Percentages of amounts | 86 |
| **18** | 2 | Percentage change | 109 |
| **19** | 3 | Use of a calculator | 77 |
| **20** | 2 | Inequalities | 138 |
| **21** | 4 | Sequences | 37 |
| **22** | 3 | Averages from a table , frequency polygon | 130 65b |
| **23** | 3 | Exchange rates | 105 |
| **24** | 3 | Problem solving : HCF LCM | 79 80 |
| **25** | 2 | Substitution into a formula | 95 |
| **26** | 5 | Problem solving : ratio & area of a triangle | 54 106 |
| **27** | 4 | Plotting a cubic graph | 161 |
| **28** | 4 | Simplifying algebra | 34 94 |
| **29** | 2 | Trigonometry | 168 |

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| Higher | Paper 1 | Secure Mock 4 |

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|  | **Marks** | **Skills** | **MathsWatch** |
| **1** | 3 | Product of prime factors | 78 |
| **2** | 4 | Probability : relative frequency | 125 |
| **3** | 2 | Finding errors in graphs |  |
| **4** | 2 | Describing transformations | 49 |
| **5** | 3 | Loci | 165 |
| **6** | 3 | Probability | 59 |
| **7** | 2 | Plans and elevations | 51 |
| **8** | 5 | Problem solving : time & estimation | 91 |
| **9** | 2 | Stem and leaf | 128b |
| **10** | 2 | Reverse % | 110 |
| **11** | 7 | Solving equations, factorising quadratic rearranging formula | 135 157 136 |
| **12** | 5 | Negative and fractional indices | 154 188 |
| **13** | 3 | Problem solving : ratio | 106 |
| **14** | 8 | Distance speed time | 142 |
| **15** | 4 | Algebraic proof | 193 |
| **16** | 3 | Inverse proportion | 199 |
| **17** | 4 | Circle theorems | 183 |
| **18** | 5 | Speed time graphs | 216 |
| **19** | 5 | Density | 142 |
| **20** | 4 | Rationalising surds | 207 |
| **21** | 4 | Problem solving : tangent to a circle | 197 208 |

Notes

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| Higher | Paper 2 | Secure Mock 4 |

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|  | **Marks** | **Skills** | **MathsWatch** |
| **1** | 2 | Ratio part : whole | 106 |
| **2** | 5 | Venn diagram | 127 185 |
| **3** | 3 | Pythagoras | 150 |
| **4** | 4 | Standard form | 83 |
| **5** | 3 | Compound depreciation | 164 |
| **6** | 5 | Problem solving : area of circle & trapezium | 56 117 |
| **7** | 3 | Problem solving : inverse proportion | 42 |
| **8** | 3 | Compound interest | 164 |
| **9** | 4 | Angles in polygons | 123 |
| **10** | 4 | Simultaneous equations | 162 |
| **11** | 4 | Box and whisker plots | 187 |
| **12** | 4 | Trigonometry in 3d | 218 |
| **13** | 5 | Rules of indices | 82 |
| **14** | 3 | Ratios in ratios |  |
| **15** | 2 | Possible combinations |  |
| **16** | 6 | Reflecting curves & identifying graphs | 196 |
| **17** | 4 | Iterative methods | 180 |
| **18** | 4 | Solving a quadratic inequality | 212 |
| **19** | 3 | Vectors | 219 |
| **20** | 4 | Functions | 214 215 |
| **21** | 5 | Probability | 204 |

Notes

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| Higher | Paper 3 | Secure Mock 4 |

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|  | **Marks** | **Skills** | **MathsWatch** |
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| **2** | 4 | Sequences | 37 |
| **3** | 3 | Averages from a table , frequency polygon | 130 65b |
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| **7** | 5 | Problem solving : ratio & area of a triangle | 54 106 |
| **8** | 4 | Plotting a cubic graph | 161 |
| **9** | 2 | Calculating in standard form | 83 |
| **10** | 3 | Cumulative frequency | 186 |
| **11** | 3 | Problem solving : percentage increase | 108 |
| **12** | 3 | Problem solving : mean | 62 |
| **13** | 5 | Probability trees | 151 175 |
| **14** | 3 | Percentage change | 109 |
| **15** | 5 | Angle facts | 120 121 |
| **16** | 3 | Similar shapes | 144 200 |
| **17** | 4 | Lower and upper bounds | 206 |
| **18** | 4 | Algebraic fractions | 210 |
| **19** | 5 | Volume of hemisphere and cone | 169 171 |
| **20** | 5 | Simultaneous equations including a quadratic | 211 |
| **21** | 3 | Combinations of transformations | 182 |
| **22** | 3 | Transformation of trigonometric graphs | 196b |
| **23** | 3 | Completing the square | 209 |

Notes



How to use MathsWatch

**https://vle.mathswatch.co.uk**

**This website gives access to over 200 videos and worksheet, designed and created the support the new GCSE**

**MathsWatch is password protected**

**User name: firstname:surname@brymore**

**Password: brymore**

**(although boys are encouraged to change this)**

