

1MA1 Practice Tests Set 1: Paper 1H (Regular) mark scheme – Version 1.0

| Question | Working | Answer | Mark | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--|-------------|----------|----------|--|----------|----------|----------|----------|----------|----------|----------|----------|--|-----------|----------|-----------|------|----|----------|-----|----|----------|------------|--|---|------|------------|-----|-------|-------------|-------|---|--|
| 1. | $\begin{array}{r} 54 \\ \underline{24} \\ 216 \\ \underline{1080} \\ 1296 \end{array}$ <table border="1" data-bbox="322 560 674 756"> <tr> <td></td> <td align="center">5</td> <td align="center">4</td> <td></td> </tr> <tr> <td align="center">1</td> <td align="center">1 / 0</td> <td align="center">8 / 6</td> <td align="center">2</td> </tr> <tr> <td align="center">2</td> <td align="center">2 / 0</td> <td align="center">1 / 6</td> <td align="center">4</td> </tr> </table> <p align="center">9 6</p> <table border="1" data-bbox="322 852 674 999"> <tr> <td></td> <td align="center">50</td> <td align="center">4</td> </tr> <tr> <td align="center">20</td> <td align="center">1000</td> <td align="center">80</td> </tr> <tr> <td align="center">4</td> <td align="center">200</td> <td align="center">16</td> </tr> </table> <p>1000 + 200 + 80 + 16 = 1296</p> <table border="1" data-bbox="322 1107 674 1254"> <tr> <td align="center">5</td> <td align="center">0.4</td> <td></td> </tr> <tr> <td align="center">1</td> <td align="center">0.08</td> <td align="center">0.2</td> </tr> <tr> <td align="center">0.2</td> <td align="center">0.016</td> <td align="center">0.04</td> </tr> </table> <p>1 + 0.2 + 0.08 + 0.016 = 1.296</p> | | 5 | 4 | | 1 | 1 / 0 | 8 / 6 | 2 | 2 | 2 / 0 | 1 / 6 | 4 | | 50 | 4 | 20 | 1000 | 80 | 4 | 200 | 16 | 5 | 0.4 | | 1 | 0.08 | 0.2 | 0.2 | 0.016 | 0.04 | 1.296 | 3 | <p>M1 for a complete method with relative place value correct. Condone 1 multiplication error, addition not necessary.</p> <p>OR</p> <p>M1 for a complete grid. Condone 1 multiplication error, addition not necessary.</p> <p>OR</p> <p>M1 for sight of a complete partitioning method, condone 1 multiplication error. Final addition not necessary.</p> <p>A1 for sight of digits 1296(00...) A1 (dep on M1, but not previous A1) for correct placement of decimal point in their product.</p> <p>[SC:B2 for digits 1296(00...) seen if M0 scored]</p> |
| | 5 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 / 0 | 8 / 6 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 / 0 | 1 / 6 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 1000 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 200 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0.08 | 0.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 | 0.016 | 0.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1MA1 Practice Papers: Set 1 Regular (1H) mark scheme – Version 1.1

1MA1 Practice Tests Set 1: Paper 1H (Regular) mark scheme – Version 1.0

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| 2. | | | $71.5 \leq H < 72.5$ | 2 | B1 71.5 B1 72.5 |

1MA1 Practice Tests Set 1: Paper 1H (Regular) mark scheme – Version 1.0

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|----------|--|--|--------|------|--|
| 3. | | $6 \times 10 \times 8 = 480$ $480 \div (6 \times 20) =$ | 4 | 3 | M1 for $6 \times 10 \times 8$ or 480 seen M1 (dep) for '480' $\div (6 \times 20)$ oe A1 cao OR M1 for $20 \div 10 (=2)$ or $10 \div 20 (= \frac{1}{2})$ or $\frac{8}{20}$ oe or $\frac{20}{8}$ oe M1 (dep) for $8 \div '2'$ or $8 \times \frac{1}{2}$ or $\frac{8}{20} \times 10$ oe or $10 \div \frac{20}{8}$ A1 cao SC : B2 for answer of 16 coming from $\frac{20 \times 8 \times 6}{10 \times 6}$ oe |

1MA1 Practice Tests Set 1: Paper 1H (Regular) mark scheme – Version 1.0

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| 4. | | 0.38×10^{-1} , 3800×10^{-4} , 0.038×10^2 , 380 | Correct order | 2 | M1 changing any one correctly or at least 3 in the correct order (ignoring one) or reverse order A1 for correct order (accept any form) |
| 5. | (a) | (4,0) (3, 0) (3, -1) (2, -1) (2, 2) (4, 2) | Correct position | 2 | B2 for correct shape in correct position (B1 for any incorrect translation of correct shape) |
| | (b) | | Rotation 180° (0,1) | 3 | B1 for rotation B1 for 180° (ignore direction) B1 for (0, 1) OR B1 for enlargement B1 for scale factor -1 B1 for (0, 1) (NB: a combination of transformations gets B0) |
| 6. | (a) | $\frac{(x+2)^2}{x+2} = \frac{(x+2)}{1}$ | $x+2$ | 1 | B1 $x+2$ or $\frac{(x+2)}{1}$ |
| | (b) | | $6a^5b^2$ | 2 | B2 cao (B1 exactly 2 out of 3 terms correct in a product or a^5b^2 or $6a^{2+3}b^{1+1}$) |

1MA1 Practice Tests Set 1: Paper 1H (Regular) mark scheme – Version 1.0

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|----------|--|-------------|------|--|
| 7. | $180 \div 9 \times 1:180 \div 9 \times 3:180 \div 9 \times 5$ $= 20:60:100$ Not enough cement (but enough sand and enough gravel) OR $1 \times 15:3 \times 15:5 \times 15$ $=15:45:75$ $15 + 45 + 75 = 135$ (< 180) Not enough cement (to make 180kg of concrete) | No + reason | 4 | M1 for $180 \div (1 + 3 + 5)$ (= 20) or 3 multiples of 1: 3: 5 M1 for $1 \times "20"$ or $3 \times "20"$ or $5 \times "20"$ or 20 seen or 60 seen or 100 seen A1 for (Cement =) 20, (Sand =) 60, (Gravel) = 100 C1 ft (provided both Ms awarded) for not enough cement oe OR M1 for $(1 \times 15$ and) 3×15 and 5×15 or 9×15 or sight of the numbers 15, 45, 75 together. M1 for '15' + '45' + '75' A1 for 135 (< 180) C1 ft (provided both Ms awarded) for not enough cement oe |

1MA1 Practice Tests Set 1: Paper 1H (Regular) mark scheme – Version 1.0

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|----------|---------|--------|------|---|
| 8. | | 25 | 4 | M1 for $600 \div 4 (=150)$ M1 for $4500 \div "150" (=30)$ M1 for $750 \div "30"$ A1 for 25 with supporting working OR M1 for $4500 \div 750 (= 6)$ or $750 \div 4500 (= \frac{1}{6})$ M1 for $600 \div 4 (=150)$ or $600 \div "6" (=100)$ or $600 \times "\frac{1}{6}" (= 100)$ M1 for $"150" \div "6"$ or $"100" \div 4$ or $150 \times "\frac{1}{6}"$ A1 for 25 with supporting working OR M1 for $4500 \div 750 (=6)$ or $750 \div 4500 (= \frac{1}{6})$ M1 for $\frac{1}{4} \times \frac{1}{6} \left(= \frac{1}{24} \right)$ M1 for $"\frac{1}{24}" \times 600$ A1 for 25 with supporting working |

1MA1 Practice Tests Set 1: Paper 1H (Regular) mark scheme – Version 1.0

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|----------|-----|---|---|------|--|
| 9. | (a) | | 15 – 19 | 1 | B1 for 15 – 19 oe (e.g. 15 to 19) |
| | (b) | | Frequency polygon through (2, 8), (7, 11), (12, 9), (17, 14) and (22, 18) | 2 | B2 for a complete and correct polygon (ignore any histograms, any lines below a mark of 2 or above a line of 22, but award B1 only if there is a line joining the first to last point) (B1 for one vertical or one horizontal plotting error OR for incorrect but consistent error in placing the midpoints horizontally (accept end points of intervals) OR for correct plotting of mid-interval values but not joined) Plotting tolerance $\pm \frac{1}{2}$ square Points to be joined by lines (ruled or hand-drawn but not curves) |
| 10. | | $5q + 5p = 4 + 8p$ $5q = 4 + 8p - 5p$ $5q = 4 + 3p$ $q = \frac{4+3p}{5}$ | $q = \frac{4+3p}{5}$ | 3 | M1 for expansion of bracket or $5q + 5p$ or each term $\div 5$ M1 for correct process to $aq = bp + c$, a , b and c numbers A1 $q = \frac{4+3p}{5}$ oe [SC B2 for ambiguous answer e.g. $\frac{4+3p}{5}$] |

1MA1 Practice Tests Set 1: Paper 1H (Regular) mark scheme – Version 1.0

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| 11. | (a) | $x^2 - 3x + 5x - 15$ | 2 | M1 for four correct terms with or without signs, or 3 out of no more than 4 terms with correct signs. The terms may be in an expression or in a table A1 cao |
| | (b) | $(x + 9)(x - 1) = 0$ OR $a = 1, b = 8, c = -9$ $x = \frac{-8 \pm \sqrt{8^2 - 4 \times 1 \times -9}}{2 \times 1}$ $= \frac{-8 \pm \sqrt{100}}{2}$ OR $(x + 4)^2 - 16 - 9$ $(x + 4)^2 = 25$ $x = -4 \pm \sqrt{25}$ | 3 | M2 for $(x + 9)(x - 1)$ (M1 for $(x \pm 9)(x \pm 1)$) A1 cao OR M1 for correct substitution in formula of 1, 8, ± 9 M1 for reduction to $\frac{-8 \pm \sqrt{100}}{2}$ A1 cao OR M1 for $(x + 4)^2$ M1 for $-4 \pm \sqrt{25}$ A1 cao SC: if no marks score then award B1 for 1 correct root, B3 for both correct roots. |

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| 12. | (a) | $3t + 1 < t + 12$ $3t - t < 12 - 1$ $2t < 11$ | $t < 5.5$ | 2 | M1 $3t - t < 12 - 1$ A1 $t < 5.5$ oe (B1 for $t = 5.5$ or $t > 5.5$ or 5.5 or $t \leq 5.5$ or $t \geq 5.5$ on the answer line) |
| | (b) | | 5 | 1 | B1 for 5 or ft (a) |
| 13. | | | 54 | 3 | M1 for any correct use of distance, speed, time formulae, e.g. $10 \div 40 (= 0.25)$ or 15 min M1 (dep) for a complete method to find speed from G to H, e.g. $18 \div (35 - "15") \times 60$ oe A1 cao |
| 14. | | $M = kL^3$ $k = \frac{M}{L^3} = \frac{160}{8} = 20$ Where $L = 3$, $M = 20 \times 3^3$ | 540 | 4 | M1 for $M \propto L^3$ $M = kL^3$ A1 $k = 20$ M1 for '20' $\times 3^3$ A1 for 540 cao |
| 15. | (a) | | 25 16 | 2 | M1 for correct use of frequency density to find a unit of area (for example $1 \text{ cm}^2 = 2.5$ or 1 small square = 0.1) or the area of one block. A1 cao |
| | (b) | | Correct black (1cm high between 40 and 60) | 1 | B1 for correct black |

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|----------|-----|---------|--|------|--|
| 16. | (a) | | 7 | 1 | B1 for 7 (accept -7 or ± 7) |
| | (b) | | $3\sqrt{5}$ | 1 | B1 cao |
| 17. | | | Proof | 3 | M1 for $(x =) 0.04545(\dots)$ or $1000x = 45.4545(\dots)$, accept $1000x = 45.\dot{4}5$ or $100x = 4.54545(\dots)$, accept $100x = 4.\dot{5}4$ or $10x = 0.4545(\dots)$, accept $10x = 0.\dot{4}5$ M1 for finding the difference between two correct, relevant recurring decimals for which the answer is a terminating decimal A1 (dep on M2) for completing the proof by subtracting and cancelling to give a correct fraction e.g. $\frac{45}{990} = \frac{1}{22}$ or $\frac{4.5}{99} = \frac{1}{22}$ |
| 18. | | | Vertices at $(-6, 7)$ $(-3, 7)$ $(-3, 1)$ | 3 | B3 fully correct (B2 correct orientation and correct size or two correct vertices) (B1 correct size or correct orientation or one correct vertex) |

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| 19. | <p>EE + CC + HH</p> <p>Or</p> <p>EC+EH+CE+CH+HE +HC</p> <p>Or</p> <p>E,not E+ C,not C + H,not H</p> | $\frac{76}{110}$ | 5 | <p>M1 for use of 10 as denominator for 2nd probability</p> <p>M1 for $\frac{4}{11} \times \frac{3}{10}$ or $\frac{5}{11} \times \frac{4}{10}$ or $\frac{2}{11} \times \frac{1}{10}$</p> <p>M1 for $\frac{4}{11} \times \frac{3}{10} + \frac{5}{11} \times \frac{4}{10} + \frac{2}{11} \times \frac{1}{10} \left(= \frac{34}{110} \right)$</p> <p>M1 (dep on previous M1 for $1 - \frac{34}{110}$)</p> <p>A1 for $\frac{76}{110}$ oe</p> <p>Or</p> <p>M1 for use of 10 as denominator for 2nd probability</p> <p>M1 for $\frac{4 \times 5}{11 \times 10}$ or $\frac{4 \times 2}{11 \times 10}$ or $\frac{5 \times 4}{11 \times 10}$ or $\frac{5 \times 2}{11 \times 10}$ or $\frac{2 \times 4}{11 \times 10}$ or $\frac{2 \times 5}{11 \times 10}$</p> <p>M2 for $\frac{4 \times 5}{11 \times 10} + \frac{4 \times 2}{11 \times 10} + \frac{5 \times 4}{11 \times 10} + \frac{5 \times 2}{11 \times 10} + \frac{2 \times 4}{11 \times 10} + \frac{2 \times 5}{11 \times 10}$</p> <p>(M1 for at least 3 of these)</p> <p>A1 for $\frac{76}{110}$ oe</p> <p>Or</p> <p>M1 for use of 10 as denominator for 2nd probability</p> <p>M1 for $\frac{4}{11} \times \frac{7}{10}$ or $\frac{5}{11} \times \frac{6}{10}$ or $\frac{2}{11} \times \frac{9}{10}$</p> <p>M2 for $\frac{4}{11} \times \frac{7}{10} + \frac{5}{11} \times \frac{6}{10} + \frac{2}{11} \times \frac{9}{10}$</p> <p>(M1 for two of these added)</p> <p>A1 for $\frac{76}{110}$ oe</p> |

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| 20. | <p>Gradient of $AB = 2$</p> <p>Gradient of perpendicular line $= -\frac{1}{2}$</p> $y = -\frac{1}{2}x + c$ $-1 = -\frac{1}{2} \times 5 + c$ $c = \frac{3}{2}$ | $y = -\frac{1}{2}x + \frac{3}{2}$ | 4 | <p>M1 for attempt to find gradient of AB</p> <p>M1 (dep) for attempt to find gradient of perpendicular line eg use of $-1/m$</p> <p>M1(dep on M2) for substitution of $x = 5, y = -1$</p> <p>A1 for $y = -\frac{1}{2}x + \frac{3}{2}$ oe</p> |
| 21. | <p>(a)</p> <p>(b)</p> | <p>Circle, centre O, radius 3</p> <p>$x = 2.6, y = -1.6$ or $x = -1.6, y = 2.6$</p> | <p>2</p> <p>3</p> | <p>M1 for a complete circle centre $(0, 0)$</p> <p>A1 for a correct circle within guidelines</p> <p>M1 for $x + y = 1$ drawn</p> <p>M1 (dep) ft from (a) for attempt to find coordinates for any one point of intersection with a curve or circle</p> <p>A1 for $x = 2.6, y = -1.6$ and $x = -1.6, y = 2.6$ all ± 0.1</p> |

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|----------|-----|---|--------|------|---|
| 22. | (a) | $\left(\frac{8}{4}\right)^2 \times 80$ | 320 | 2 | M1 for $\left(\frac{8}{4}\right)^2$ or $\left(\frac{4}{8}\right)^2$ A1 for 320 cao |
| | (b) | $\left(\frac{4}{8}\right)^3 \times 600$ | 75 | 2 | M1 for $\frac{1}{\left(\frac{8}{4}\right)} \times 600$ A1 for 75 cao |

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| 23. | <p>$DE = AE$, and $AE = EB$ (tangents from an external point are equal in length) so $DE = EB$</p> <p>$AE = EC$ (given)</p> <p>Therefore</p> <p>$AE = DE = EB = EC$ So $DB = AC$</p> <p>If the diagonals are equal and bisect each other then the quadrilateral is a rectangle.</p> <p>OR</p> <p>If $AE = DE = EB = EC$ then there are four isosceles triangles ADE, AEB, BEC, DEC in which the angles DAB, ABC, BCD, CDA are all the same.</p> <p>Since $ABCD$ is a quadrilateral this makes</p> | Proof | 4 | <p>B1 for $DE = AE$ or $AE = EB$ (can be implied by triangle AED is isosceles or triangle AEB is isosceles or indication on the diagram)</p> <p>OR <u>tangents</u> from an external <u>point</u> are <u>equal</u> in length</p> <p>B1 for $AE = DE = EB = EC$</p> <p>B1 for $DB = AC$, (dep on B2)</p> <p>OR consideration of 4 isosceles triangles in $ABCD$</p> <p>C1 fully correct proof. Proof should be clearly laid out with technical language correct and fully correct reasons</p> |

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|--|--|---------------|-------------|--------------|
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| | all four angles 90° , and $ABCD$ must therefore be a rectangle. | | | |

National performance data taken from Results Plus

| Qu | Spec | Paper | Session YYMM | Qu | Topic | Max score | Mean % all | ALL | A* | A | B | C | D | E |
|----|-------|-------|-----------------|-------|--|--------------|---------------|------|------|-------------------------|------|------|------|------|
| 1 | 2544 | 14H | 0806 | Q02 | Four operations | 3 | 45 | 1.35 | 2.80 | 2.28 | 1.50 | 0.84 | 0.44 | 0.36 |
| 2 | | | | NEW | Bounds | 2 | | | | No data available | | | | |
| 3 | 1MA0 | 1H | 1206 | Q12 | Volume | 3 | 37 | 1.11 | 2.55 | 1.74 | 1.12 | 0.75 | 0.48 | 0.36 |
| 4 | 1MA0 | 1H | 1211 | Q20 | Standard form | 2 | 60 | 1.20 | 1.91 | 1.80 | 1.61 | 1.20 | 0.73 | 0.46 |
| 5 | 1MA0 | 1F | 1306 | Q26 | Translations | 5 | 24 | 1.20 | | | | 2.57 | 1.63 | 1.04 |
| 6 | 1380 | 1H | 1203 | Q15cd | Simplify expressions | 3 | 54 | 1.62 | 2.80 | 2.46 | 1.98 | 1.33 | 0.74 | 0.45 |
| 7 | 1MA0 | 1H | 1211 | Q13 | Ratio | 4 | 44 | 1.76 | 3.77 | 3.45 | 2.78 | 1.60 | 0.61 | 0.16 |
| 8 | 1MA0 | 1H | 1411 | Q14 | Ratio | 4 | 31 | 1.23 | 3.63 | 3.20 | 2.46 | 1.34 | 0.65 | 0.24 |
| 9 | 1380 | 1H | 1006 | Q08 | Frequency diagrams | 3 | 51 | 1.53 | 2.63 | 2.13 | 1.49 | 0.96 | 0.56 | 0.34 |
| 10 | 1380 | 1H | 0911 | Q16 | Rearranging equations | 3 | 44 | 1.33 | 2.88 | 2.57 | 1.70 | 0.77 | 0.32 | 0.11 |
| 11 | 1380 | 1H | 1011 | Q23 | Solve quadratic equations | 5 | 36 | 1.82 | 4.62 | 3.60 | 2.22 | 1.07 | 0.43 | 0.17 |
| 12 | 1380 | 1H | 0906 | Q20 | Solve inequalities | 3 | 50 | 1.51 | 2.87 | 2.40 | 1.51 | 0.64 | 0.18 | 0.06 |
| 13 | 1MA0 | 1H | 1506 | Q14 | Compound measures | 3 | 34 | 1.03 | 2.58 | 1.94 | 1.30 | 0.64 | 0.23 | 0.09 |
| 14 | 1380 | 1H | 0906 | Q21 | Direct and inverse proportion | 4 | 45 | 1.81 | 3.88 | 3.27 | 1.62 | 0.51 | 0.10 | 0.03 |
| 15 | 2540 | 1H | 0811 | Q23 | Histograms and grouped frequency | 3 | 20 | 0.60 | 2.63 | 1.56 | 0.56 | 0.23 | 0.19 | 0.18 |
| 16 | 2540 | 1H | 0811 | Q25 | Index notation | 2 | 21 | 0.41 | 1.83 | 1.16 | 0.48 | 0.12 | 0.03 | 0.02 |
| 17 | 1MA0 | 1H | 1506 | Q21 | Recurring decimals | 3 | 22 | 0.66 | 2.57 | 1.69 | 0.67 | 0.16 | 0.04 | 0.01 |
| 18 | 5MM1 | 1H | 1306 | Q22 | Enlargement | 3 | 25 | 0.74 | 2.33 | 1.20 | 0.50 | 0.14 | 0.06 | 0.06 |
| 19 | 1MA0 | 1H | 1303 | Q24 | Selection with and without replacement | 5 | 16 | 0.79 | 4.43 | 2.96 | 1.10 | 0.22 | 0.04 | 0.01 |
| 20 | 2MB01 | 2H | 1211 | Q16 | Equations of lines | 4 | 22 | 0.86 | 2.94 | 2.15 | 0.73 | 0.20 | 0.01 | 0.02 |
| 21 | 1380 | 1H | 1011 | Q28 | Graphs of circles | 5 | 12 | 0.60 | 3.57 | 1.24 | 0.38 | 0.11 | 0.03 | 0.02 |
| 22 | 2540 | 1H | 0806 | Q24 | Congruence and similarity | 4 | 15 | 0.60 | 2.95 | 0.94 | 0.19 | 0.06 | 0.04 | 0.03 |
| 23 | 2MB01 | 2H | 1103 | Q16 | Proof | 4 | 2 | 0.07 | | No grade data available | | | | |
| | | | | | | 80 | | | | | | | | |