

Practice Tests Set 17 – Paper 1H mark scheme, performance data and suggested grade boundaries

| Q | Working | Answer | Mark | Notes |
|---|---------|--|------|--|
| 1 | (a) | $5 \times (-2)^2 - (-2)^3 (= 20 - -8)$ | 2 | M1 for correct expression or at least one of 20 or 5×4 or $-- 8$ or (+) 8 |
| | | 28 | | A1 |
| | (b) | $2p(4p - 1)$ | 2 | B2 B1 for $p(8p - 2)$ or $2(4p^2 - p)$ or $2p(4p - 1)$ with two terms inside the bracket with one term correct. |
| | (c) | $12t^2 - 8t$ | 2 | B2 B1 for $12t^2$ or $- 8t$ |
| | (d) | $5x^2 + 20x - 2x - 8$ | 2 | M1 for 4 correct terms (ignoring signs) or 3 correct terms with correct signs. or $5x^2 + 18x + \dots$ or $\dots + 18x - 8$ |
| | | $5x^2 + 18x - 8$ | | A1 |
| | | | | Total 8 marks |

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|---|-----------------------------|---|------|--|
| 2 | eg $(x \pm 20)(x \pm 1)$ | $\frac{-(-21) \pm \sqrt{(-21)^2 - 4 \times 1 \times 20}}{2 \times 1}$ or $\left(x - \frac{21}{2}\right)^2 - \left(\frac{21}{2}\right)^2 + 20 = 0$ | 3 | M1 If factorising, allow brackets which expanded give 2 out of 3 terms correct – if using formula or completing the square allow one sign error and some simplification – allow as far as eg $\frac{21 \pm \sqrt{441 - 80}}{2}$ or eg $\left(x - \frac{21}{2}\right)^2 - \frac{361}{4} = 0$ oe |
| | $(x - 20)(x - 1)$ | eg $\frac{21 \pm \sqrt{441 - 80}}{2}$ or $\frac{21 \pm \sqrt{361}}{2}$ or $\frac{21 \pm 19}{2}$ or $x = \pm \sqrt{\frac{361}{4}} + \frac{21}{2}$ oe | | M1 dep on M1 for correct factorisation, or a correct expression for x if completing the square. or a correct substitution into quadratic formula with some processing. |
| | | 1, 20 | | A1 for both correct values, dep on 1st M1 with no incorrect working. |
| | | | | Total 3 marks |

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| 3 | eg. $10x + 35y = 85$ $10x + 6y = -2$ with the operation of subtraction or $29y = 87$ or $6x + 21y = 51$ $35x + 21y = -7$ with the operation of subtraction or $29x = -58$ or eg $5\left(\frac{17-7y}{2}\right) + 3y = -1$ or eg $5x + 3\left(\frac{17-2x}{7}\right) = -1$ | | 4 | M1 for correct method to eliminate one variable – multiplying one or both equations so the coefficient of x or y is the same in both, with the correct operation to eliminate one variable (condone one arithmetic error) or isolating x or y in one equation and substituting into the other (condone one arithmetic error). |
| | | | | M1 dep 1st M1 Substitute found value into one equation or correct method to eliminate second unknown. |
| | | $x = -2$ $y = 3$ | | A1 dep 1st M1 A1 |
| | | | | Total 4 marks |

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| 4 | E.g. $x^2 + 4x - 2x - 8 (= x^2 + 2x - 8)$ or $x^2 - 2x + x - 2 (= x^2 - x - 2)$ or $x^2 + 4x + x + 4 (= x^2 + 5x + 4)$ | | 3 | M1 for multiplying out two brackets correctly with no more than one error |
| | E.g. $x^3 + 2x^2 - 8x + x^2 + 2x - 8$ or $x^3 + 4x^2 - 2x^2 - 8x + x^2 + 4x - 2x - 8$ or $x^3 - x^2 - 2x + 4x^2 - 4x - 8$ or $x^3 - 2x^2 + x^2 - 2x + 4x^2 - 8x + 4x - 8$ or $x^3 + 5x^2 + 4x - 2x^2 - 10x - 8$ or $x^3 + 4x^2 + x^2 + 4x - 2x^2 - 8x - 2x - 8$ | | | M1 for at least 3 terms correct out of a maximum of 6 terms or for at least 4 terms correct out of a maximum of 8 terms |
| | | $x^3 + 3x^2 - 6x - 8$ | | A1 |
| | | | | Total 3 marks |

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| 5 a | e.g. $A + 5z = \frac{c}{y}$ oe or $Ay = c - 5yz$ oe | | 2 | M1 for a correct first step e.g. add $5z$ to both sides or multiply all terms by y |
| | | $c = y(A + 5z)$ | | A1 oe |
| b | | 1 | 1 | B1 |
| c | $(x \pm 3)(x \pm 8)$ | | 2 | M1 or for $(x \pm a)(x \pm b)$ where $ab = 24$ or $a + b = -11$ |
| | | $(x - 3)(x - 8)$ | | A1 |
| | | | | Total 5 marks |

| | | | | |
|-------|-----|-----------|---|--|
| 6 (a) | | $81k^8$ | 2 | B2 B1 for 81 or k^8 seen in their final answer. |
| | (b) | $7m^4n^6$ | 2 | B2 B1 for $7m^4$ or n^6 in a product with no other terms in m or n |
| | | | | Total 4 marks |

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| 7 | E.g. $\frac{3(2x+1)+4(x-2)}{12}$ or $\frac{3(2x+1)}{12} + \frac{4(x-2)}{12}$ | | 3 | M1 for expressing both fractions correctly with a common denominator. Allow as two separate fractions. |
| | E.g. $\frac{6x+3+4x-8}{12}$ | | | M1 for removing brackets correctly in a correct single fraction |
| | | $\frac{10x-5}{12}$ | | A1 accept $\frac{5(2x-1)}{12}$ |
| | | | | Total 3 marks |

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|---|---|------------|------|--|
| 8 | e.g. $\frac{16}{5}$ and $\frac{11}{6}$ or $\frac{96}{30}$ and $\frac{55}{30}$ | | 3 | M1 for two correct improper fractions |
| | e.g. $\frac{16^8}{5} \times \frac{11}{6^3}$ or $\frac{176}{30}$ or $\frac{5280}{900}$ oe | | | M1 correct cancelling or multiplication of numerators and denominators without cancelling |
| | e.g. $\frac{16}{5} \times \frac{11}{6} = \frac{176}{30} = \frac{88}{15} = 5\frac{13}{15}$ or $\frac{16}{5} \times \frac{11}{6} = \frac{176}{30} = 5\frac{26}{30} = 5\frac{13}{15}$ or $\frac{16^8}{5} \times \frac{11}{6^3} = \frac{88}{15} = 5\frac{13}{15}$ or $\frac{96}{30} \times \frac{55}{30} = \frac{5280}{900} = \frac{88}{15} = 5\frac{13}{15}$ NB: a student can show initially that $5\frac{13}{15} = \frac{88}{15}$ and they need to show that LHS = $\frac{88}{15}$ | shown | | A1 Dep on M2 for conclusion to $5\frac{13}{15}$ from correct working – either sight of the result of the multiplication e.g. $\frac{176}{30}$ must be seen and equated to $\frac{88}{15}$ or $5\frac{26}{30}$ or correct cancelling prior to the multiplication to $\frac{88}{15}$ NB: use of decimals scores no marks |
| | | | | Total 3 marks |
| 9 | | $4e^5 f^3$ | 2 | B2 (B1 for 2 out of 3 terms correct in a 3 term product) |
| | | | | Total 2 marks |

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|----|---|----------|------|---|
| 10 | eg $(2^3)^2 \times \sqrt[3]{(2^2)^6}$ or $(2^3)^2 \times (4)^{\frac{6}{3}}$ or $4^3 \times 4^2$ or 2^6 or 2^4 seen or $2^6 \times 16$ or 64×4^2 or $8^2 \times 4^2$ or $8^2 \times 16$ or 64×16 | | 3 | M1 a correct first stage. |
| | $2^6 \times (2^{12})^{\frac{1}{3}}$ or 1024 or 32^2 or 4^5 or $2^6 \times 2^4$ | | | M1 dep on 1st M mark. |
| | | 2^{10} | | A1 dependent on first M1 isw if 2^{10} seen but then 10 given as answer. |
| | | | | Total 3 marks |

| | | | | | |
|----|-----|---|---|---|--|
| 11 | (a) | vertices at $(-9, 6)$ $(-9, 9)$ $(-3, 9)$ $(-6, 6)$ | Shape in correct position | 2 | B2 B1 for congruent shape in correct orientation but wrong position or quadrilateral with 2 or 3 vertices correct. |
| | (b) | vertices at $(7, 3)$ $(10, 6)$ $(13, 6)$ $(13, 3)$ | Shape in correct position | 1 | B1 |
| | (c) | | enlargement scale factor 2 centre $(-3, 3)$ | 3 | B1 for enlargement, enlarge, etc so long as no mention of rotation, reflection or translation, flip, move etc. B1 SF 2, double, two times etc. B1 $(-3, 3)$ stated. Accept about, from etc. with no mention of line, or column vector. |
| | | | | | Total 6 marks |

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| 12 | $\frac{5}{x+2} + \frac{3}{x(x+2)} (= 2)$ or $\frac{5x}{x^2+2x} + \frac{3}{x^2+2x} (= 2)$ | | 5 | M1 Factorising $x^2 + 2x$ in correct expression on LHS or for writing the two fractions over a common denominator. |
| | $\frac{5x+3}{x(x+2)} = 2$ or $\frac{5x+3}{x^2+2x} = 2$ or $5x+3 = 2x(x+2)$ oe or $5x+3 = 2x^2+4x$ oe | | | M1 Correct simplified single fraction = 2 or correct equation with no fractions. |
| | $2x^2 - x - 3 (= 0)$ | | | M1 Correct 3 term quadratic |
| | $(2x-3)(x+1) (=0)$ or $\frac{- -1 \pm \sqrt{(-1)^2 - 4 \times 2 \times (-3)}}{2 \times 2}$ or $\left(x - \frac{1}{4}\right)^2 - \frac{1}{16} - \frac{3}{2} = 0$ oe | | | M1ft independent For solving <i>their</i> 3 term quadratic equation using any correct method. If factorising, allow brackets which expanded give 2 out of 3 terms correct (if using formula or completing the square allow one sign error and some simplification – allow as far as eg $\frac{1 \pm \sqrt{1+24}}{4}$ or eg $\left(x - \frac{1}{4}\right)^2 = \frac{25}{16}$ oe |
| | | 1.5 and -1 | | A1 oe dep on M3 |
| | | | | Total 5 marks |

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|----|--|------------------|------|---|
| 13 | E.g. $(x - 5)^2 - 5^2 (+ 40)$ or $(x - 5)^2 - 25 (+ 40)$ $(x^2 + 2ax + a^2 (+b^2))$ $2a = -10$ or $a = -5$ | | 2 | M1 for a correct first step or for equating coefficients |
| | | $(x - 5)^2 + 15$ | | A1 accept $a = -5, b = 15$ SC B1 for $(-x + 5)^2 + 15$ or $(5 - x)^2 + 15$ |
| | | | | Total 5 marks |

| | | | | | |
|----|---|---|----|---|---|
| 14 | $(n^{-\frac{4}{5}} =) \frac{1}{16}$ or 0.0625 oe | eg $\left(n^{-\frac{1}{5}}\right)^4 = \left(\frac{1}{2}\right)^4$ | | 4 | M1 for sight of $\frac{1}{16}$ oe, even if raised to an incorrect power. or for algebraic approach, separating out the 4, or 5 or -1 in the power |
| | $(n =) 16^{\frac{5}{4}}$ or $0.0625^{-\frac{5}{4}}$ oe $(n =) 2^5$ or $\sqrt[4]{1048576}$ oe or $\frac{1}{0.0625^{\frac{5}{4}}}$ or $\left(\frac{1}{16}\right)^{\frac{5}{4}}$ | eg $(n =) \left(\frac{1}{2}\right)^{-5}$ | | | M2 for a correct expression for n (M1 for one correct algebraic stage eg $n^{-\frac{1}{5}} = \frac{1}{2}$) |
| | | | 32 | | A1 |
| | | | | | Total 7 marks |

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| 15 | $x = 4.57\dots$ and $100x = 457.57\dots$ or $10x = 45.757\dots$ and $1000x = 4575.7\dots$ or $x = 0.57\dots$ and $100x = 57.57\dots$ or $10x = 5.757\dots$ and $1000x = 575.7\dots$ | | 2 | M1 | for selecting 2 recurring decimals that when subtracted give a whole number or terminating decimal eg 453 or 4530 etc eg $100x = 457.57\dots$ and $x = 4.57\dots$ or $1000x = 4575.7\dots$ and $10x = 45.757\dots$ with intention to subtract. (If recurring dots not shown then allow $10x = 45.757$, $100x = 457.57$, and $1000x = 4575.7$ to at least 5sf) or $4 + 0.5757$ and eg $x = 0.57\dots$, $100x = 57.57\dots$ with intention to subtract. |
| | E.g. $100x - x = 457.57\dots - 4.57\dots = 453$ $\frac{453}{99} = \frac{151}{33}$ or $4\frac{19}{33}$ and or $1000x - 10x = 4575.7\dots - 45.757\dots$ $\frac{4530}{990} = \frac{151}{33}$ or $4\frac{19}{33}$ $= 4530$ and or $100x - x = 57.57\dots - 0.57\dots = 57$ $\frac{57}{99}$ or $\frac{19}{33}$ (so) $4.\dot{5}\dot{7} = 4\frac{19}{33}$ and $1000x - 10x = 575.7\dots - 5.757\dots =$ $\frac{570}{990}$ or $\frac{57}{99}$ or $\frac{19}{33}$ (so) 570 and $4.\dot{5}\dot{7} = 4\frac{19}{33}$ | Shown | A1 | | $\frac{151}{33}$ or $4\frac{19}{33}$ for completion to |
| | | | | | Total 2 marks |

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|----|---|---|------|--|
| 16 | e.g. $\begin{pmatrix} 5 \\ 3 \end{pmatrix} - \begin{pmatrix} -2 \\ 4 \end{pmatrix}$ or $\begin{pmatrix} 5 \\ 3 \end{pmatrix} + \begin{pmatrix} 2 \\ -4 \end{pmatrix}$ | | 2 | M1 or for $\begin{pmatrix} 7 \\ a \end{pmatrix}$ where $a \neq -1$ or $\begin{pmatrix} b \\ -1 \end{pmatrix}$ where $b \neq 7$ |
| | | $\begin{pmatrix} 7 \\ -1 \end{pmatrix}$ | | A1 |
| | | | | Total 2 marks |

| | | | | |
|----|--|--|---|---|
| 17 | | $y \geq 1$ oe $x \leq 3$ oe $y \leq 3x - 2$ oe | 3 | B1 Allow $1 \leq y \leq 7$ B1 Allow $1 \leq x \leq 3$ B1 Condone $<$ and $>$ in place of \leq and \geq throughout. SC B1 if no marks awarded, recognition of lines $x = 3$ and $y = 1$. Allow incorrect inequality and condone use of equals signs eg $y < 1, x = 3$ may be seen on diagram. |
| | | | | Total 3 marks |

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|------|---------|------------------------------|------|--|
| 18 a | | $2^6 \times 3 \times 11^4$ | 2 | B2 oe, accept 2 811 072 B1 for $2^a \times 3^b \times 11^c$ oe where two of a , b and c are correct |
| b | | $2^9 \times 3^5 \times 11^8$ | 2 | B2 cao B1 for $2^a \times 3^b \times 11^c$ oe where two of a , b and c are correct or $2.666... \times 10^{13}$ or an equivalent expression for e.g. $2^2 \times 2^7 \times 3^5 \times 11^3 \times 11^5$ |
| | | | | Total 4 marks |

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|----|--|---|------|--|
| 19 | $y(6y + 5) - 2y^2 = 6$ | $x\left(\frac{x-5}{6}\right) - 2\left(\frac{x-5}{6}\right)^2 = 6$ | 5 | M1 for substitution of linear equation into quadratic or multiplying linear equation by y e.g. $xy - 6y^2 = 5y$ and intention to subtract the two equations |
| | E.g. $4y^2 + 5y - 6 (= 0)$ oe $4y^2 + 5y = 6$ | E.g. $4x^2 - 10x - 266 (= 0)$ oe $4x^2 - 10x = 266$ | | A1 (dep on M1) writing the correct quadratic expression in form $ax^2 + bx + c (= 0)$ allow $ax^2 + bx = c$ |
| | E.g. $(4y - 3)(y + 2) (= 0)$ $(y =) \frac{-5 \pm \sqrt{5^2 - 4 \times 4 \times -6}}{2 \times 4}$ $4\left[\left(y + \frac{5}{8}\right)^2 - \left(\frac{5}{8}\right)^2\right] = 6$ oe | E.g. $(2x - 19)(x + 7) (= 0)$ $(x =) \frac{5 \pm \sqrt{(-5)^2 - 4 \times 2 \times (-133)}}{2 \times 2}$ $4\left[\left(x - \frac{10}{8}\right)^2 - \left(\frac{10}{8}\right)^2\right] = 266$ oe | | M1 (dep on M1) for a complete method to solve their 3-term quadratic equation (allow one sign error and some simplification – allow as far as $\frac{-5 \pm \sqrt{25 + 96}}{8}$ or $\frac{5 \pm \sqrt{25 + 1064}}{4}$) |
| | $(y =) \frac{3}{4}$ and $(y =) -2$ | $(x =) \frac{19}{2}$ and $(x =) -7$ | | A1 Dep on first M1 for having two correct x values or two correct y values |
| | | $x = \frac{19}{2}, y = \frac{3}{4}$ $x = -7, y = -2$ | | A1 Dep on first M1 Must be paired and labelled correctly |
| | | | | Total 5 marks |

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|----|--|--------|------|---|
| 20 | $(4^{k+3} =)(2^2)^{k+3}$ oe or $(16 =)2^4$ $(16 =)4^2$ or $(2^k =)\left(4^{\frac{1}{2}}\right)^k$ oe $(4^{k+3} =)\left(16^{\frac{1}{4}}\right)^{k+3}$ oe or $(2^k =)\left(16^{\frac{1}{4}}\right)^k$ oe | | 4 | M1 for $(2^2)^{k+3}$ oe or 2^4 or 4^2 or $\left(4^{\frac{1}{2}}\right)^k$ oe or $\left(16^{\frac{1}{4}}\right)^{k+3}$ oe or $\left(16^{\frac{1}{4}}\right)^k$ oe |
| | $(4^{k+3} =)(2^2)^{k+3}$ oe and $(16 =)2^4$ $(16 =)4^2$ and $(2^k =)\left(4^{\frac{1}{2}}\right)^k$ oe $(4^{k+3} =)\left(16^{\frac{1}{4}}\right)^{k+3}$ oe and $(2^k =)\left(16^{\frac{1}{4}}\right)^k$ oe | | | M1 for $(2^2)^{k+3}$ oe and 2^4 or 4^2 and $\left(4^{\frac{1}{2}}\right)^k$ oe or $\left(16^{\frac{1}{4}}\right)^{k+3}$ oe and $\left(16^{\frac{1}{4}}\right)^k$ oe |
| | E.g. $2k + 6 = 4 + k$ or $k + 3 = 2 + \frac{1}{2}k$ or $\frac{1}{2}(k + 3) = 1 + \frac{1}{4}k$ | | | M1 for a correct linear equation in k |
| | | -2 | | A1 dep on at least M2 |
| | | | | Total 9 marks |

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| 21 | $\left(\frac{-1+2}{2}, \frac{5+10}{2}\right)$ or (0.5, 7.5) oe | | 5 | M1 |
| | $\frac{10-5}{2-(-1)}\left(\frac{5}{3}\right)$ oe | | | M1 |
| | $m \times \frac{5}{3} = -1$ oe or $m = -\frac{3}{5}$ oe | | | M1 ft their gradient for use of $m_1 \times m_2 = -1$ |
| | '7.5' = $-\frac{3}{5} \times$ '0.5' + c or $c = 7.8$ oe or $y - '7.5' = -\frac{3}{5}(x - '0.5')$ | | | M1 ft dep on first M1 and third M1 |
| | | $5y + 3x = 39$ | | A1 oe where p, q and r must be integers |
| | | | | Total 5 marks |

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|---|---------|--------|------|-------|

| Qn | Mean score | Max score | Mean % | Edexcel averages: scores of candidates who achieved grade: | | | | | | | | |
|----|--------------|-----------|-----------|--|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
| | | | | ALL | 9 | 8 | 7 | 6 | 5 | 4 | 3 | U |
| 1 | 7.34 | 8 | 92 | 7.34 | 7.93 | 7.71 | 7.69 | 7.25 | 6.42 | 4.52 | 2.46 | 0.72 |
| 2 | 2.49 | 3 | 83 | 2.49 | 2.91 | 2.80 | 2.69 | 2.07 | 1.65 | 0.62 | 0.18 | 0.00 |
| 3 | 3.40 | 4 | 85 | 3.40 | 3.96 | 3.90 | 3.53 | 3.26 | 2.31 | 0.92 | 0.09 | 0.00 |
| 4 | 2.47 | 3 | 82 | 2.47 | 2.95 | 2.84 | 2.61 | 2.09 | 1.47 | 0.96 | 0.13 | 0.00 |
| 5 | 4.02 | 5 | 80 | 4.02 | 4.86 | 4.56 | 4.08 | 3.45 | 2.70 | 1.42 | 0.61 | 0.14 |
| 6 | 3.27 | 4 | 82 | 3.27 | 3.79 | 3.57 | 3.25 | 2.78 | 2.08 | 1.62 | 0.77 | 0.14 |
| 7 | 2.39 | 3 | 80 | 2.39 | 2.86 | 2.57 | 2.39 | 1.95 | 1.68 | 1.15 | 0.22 | 0.00 |
| 8 | 2.27 | 3 | 76 | 2.27 | 2.63 | 2.46 | 2.32 | 2.16 | 1.45 | 1.24 | 0.87 | 0.29 |
| 9 | 1.60 | 2 | 80 | 1.60 | 1.94 | 1.81 | 1.52 | 1.31 | 0.85 | 0.58 | 0.22 | 0.00 |
| 10 | 2.29 | 3 | 76 | 2.29 | 2.94 | 2.68 | 1.99 | 1.57 | 1.08 | 0.27 | 0.23 | 0.29 |
| 11 | 3.98 | 6 | 66 | 3.98 | 5.30 | 4.54 | 3.34 | 2.83 | 2.27 | 1.46 | 0.60 | 0.43 |
| 12 | 3.12 | 5 | 62 | 3.12 | 4.55 | 3.62 | 2.60 | 1.55 | 1.00 | 0.15 | 0.09 | 0.00 |
| 13 | 1.30 | 2 | 65 | 1.30 | 1.90 | 1.57 | 0.99 | 0.67 | 0.20 | 0.13 | 0.00 | 0.00 |
| 14 | 2.51 | 4 | 63 | 2.51 | 3.75 | 2.66 | 1.93 | 1.45 | 0.74 | 0.31 | 0.18 | 0.14 |
| 15 | 1.16 | 2 | 58 | 1.16 | 1.65 | 1.32 | 0.93 | 0.50 | 0.35 | 0.07 | 0.00 | 0.00 |
| 16 | 1.20 | 2 | 60 | 1.20 | 1.86 | 1.28 | 0.91 | 0.57 | 0.32 | 0.11 | 0.04 | 0.00 |
| 17 | 1.82 | 3 | 61 | 1.82 | 2.68 | 2.14 | 1.36 | 0.64 | 0.39 | 0.13 | 0.05 | 0.00 |
| 18 | 2.35 | 4 | 59 | 2.35 | 3.39 | 2.39 | 1.79 | 1.33 | 0.78 | 0.51 | 0.00 | 0.00 |
| 19 | 2.94 | 5 | 59 | 2.94 | 4.56 | 3.49 | 2.06 | 1.15 | 0.61 | 0.15 | 0.00 | 0.29 |
| 20 | 2.33 | 4 | 58 | 2.33 | 3.79 | 2.56 | 1.20 | 0.96 | 0.22 | 0.11 | 0.00 | 0.00 |
| 21 | 2.20 | 5 | 44 | 2.20 | 3.97 | 2.19 | 0.84 | 0.57 | 0.22 | 0.29 | 0.22 | 0.00 |
| | 56.45 | 80 | 71 | 56.45 | 74.17 | 62.66 | 50.02 | 40.11 | 28.79 | 16.72 | 6.96 | 2.44 |

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|----------|----------------|---------------|-------------|--------------|

Suggested grade boundaries

| Grade | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
|--------------|----------|----------|----------|----------|----------|----------|----------|
| Mark | 68 | 56 | 45 | 34 | 23 | 12 | 5 |