| $\mathbf{Q}$ | Working | Answer | Mark | Notes |
| :--- | :--- | :--- | :--- | :--- |


| 1 (a) | $4 y>12-5$ |  | 2 | M1 Allow $y=\frac{7}{4}$ oe or $y>-\frac{7}{4}$ or $y<\frac{7}{4}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | $y>\frac{7}{4}$ |  | A1 oe |
| (b) | $12 x-10$ <br> or $2(6 x-5)=4 x-7$ <br> or $6 x-5=\frac{4}{2} x-\frac{7}{2} \text { oe }$ |  | 3 | M1 for removal of fraction and multiplying out LHS or rearranging to remove the fraction or separating fraction (RHS) in an equation |
|  | $12 x-4 x=-7+10 \text { oe }$ <br> or $6 x-\frac{4}{2} x=-\frac{7}{2}+5 \text { oe }$ |  |  | M1 ft (dep on 4 terms) for terms in $x$ on one side of equation and number terms on the other |
|  |  | $\frac{3}{8}$ |  | A1 (dep M1) oe |
|  |  |  |  | Total 5 marks |


| $\mathbf{2}$ (a) |  | 1 | 1 | B1 |
| :--- | :--- | :--- | :--- | :--- |
| (b) |  | 6 | 1 | B1 |
| (c) | $206+m-214=-3$ oe <br> or $\frac{7^{-3} \times 7^{214}}{7^{206}}$ or $\frac{7^{211}}{7^{206}}$ oe | 2 | M1 allow $7^{206+m-214}=7^{-3}$ oe (must be in <br> the form $7^{x}=7^{y}$ where $x$ and $y$ are <br> correct expressions) |  |
|  |  | 5 |  | A1 accept $7^{5}$ |
|  |  |  |  |  |


| Q | Working | Answer | Mark | Notes |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 (a) |  | 50000 | 1 | B1 |  |
| (b) |  | $6 \times 10^{-5}$ | 1 | B1 |  |
|  |  |  |  |  | Total 2 marks |



| Q Working | Answer | Mark | Notes |
| :--- | :--- | :--- | :--- | :--- |


| $\mathbf{5}$ (a) |  | $15,0,-1,3$ | 2 | B2 for 4 correct values <br> (B1 for 2 or 3 correct values) |
| :---: | :--- | :---: | :---: | :---: |
| (b) | $(-2,15)(-1,8)(0,3)(2,-1)(3,0)(4,3)$ |  | 2 | M1 (dep on B1) ft from (a) for at least 5 <br> points plotted correctly |
|  |  | correct graph | A1 for a correct graph <br> (clear intention to go through all the points <br> and which must be curved at the bottom) <br> Note: If a fully correct graph is shown, but <br> an incomplete table is shown in (a), then <br> award the marks for (a) |  |


| $\mathbf{6}$ (a) |  | $x^{9}$ | 1 | B1 cao |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | (b) |  | $64 y^{6}$ | 2 | B2 for $64 y^{6}$ <br> (B1 for $k y^{6}$ where $k \neq 64$ or <br> $64 y^{m}$ where $\left.m \neq 6\right)$ |
| (c) | $(n \pm 3)(n \pm 4)$ | 2 | M1 for $(n \pm 3)(n \pm 4)$ or <br> $(n+a)(n+b)$ where $a b=12$ or <br> $a+b=-7$ <br> Condone use of a different letter to $n$ |  |  |
|  |  |  | $(n-3)(n-4)$ |  | A1 |
|  |  |  |  | Total 5 marks |  |


| Q | Working | Answer | Mark | Notes |
| :---: | :---: | :---: | :---: | :---: |
| 7 | $\begin{aligned} & n\left(3 n^{2}+5 n-12 n-20\right) \text { or } n\left(3 n^{2}-7 n-20\right) \text { or } \\ & \left(3 n^{2}+5 n\right)(n-4) \text { or }\left(n^{2}-4 n\right)(3 n+5) \text { or } \\ & 3 n^{3}+5 n^{2}-12 n^{2}-20 n \end{aligned}$ |  | 2 | M1 for a correct partial expansion (may be unsimplified) (allow one error in the expansion of $(n-4)(3 n+5)$ e.g. <br> for any 3 correct terms <br> or <br> for 4 out of 4 correct terms ignoring signs <br> or <br> for $3 n^{2}-7 n \ldots$ <br> or <br> for $\ldots-7 n-20$ ) |
|  |  | $3 n^{3}-7 n^{2}-20 n$ |  | A1 oe e.g. if correct answer seen allow further factorisation to $n\left(3 n^{2}-7 n-20\right)$ |
|  |  |  |  | Total 2 marks |


| 8 (a) |  | $-2,-1,0,1,2$ | 2 | B2 for $-2,-1,0,1,2$ with no additions or repeats <br> (B1 for 4 of $-2,-1,0,1,2$ with no additions or repeats <br> or <br> for 6 values with no more than one incorrect value e.g. all of $-2,-1,0,1,2,3$ <br> or <br> for 5 values with one error) |
| :---: | :---: | :---: | :---: | :---: |
| (b) |  | Closed circle at $x=1$ and a line with an arrow to the left | 1 | B1 for a closed circle at $x=1$ and a line with an arrow of any length to the left <br> Allow ] for a closed circle <br> Allow a line without an arrow if it reaches to at least -3 |
|  |  |  |  | Total 3 marks |


| $\mathbf{Q}$ | Working | Answer | Mark | Notes |
| :---: | :---: | :---: | :---: | :---: |


| 9 |  | $\begin{gathered} y=-3 x+5 \\ \text { oe } \end{gathered}$ | 2 | B2 fully correct equation eg $y=-3 x+5$ or $y-5=-3(x-0)$ <br> If not B2 then B1 for $y=-3 x+a$ with $a \neq 5$ <br> or $\begin{aligned} & y=b x+5(b \neq 0,-3) \text { or } \\ & (L=)-3 x+5 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total 2 marks |


| $\mathbf{1 0}$ | 30 | 1 | for a start to the process <br> eg, $5406 \div 6(=901)$ or $5400 \div 6(=900)$ or <br> $5000 \div 6(=833.333 .)$. |
| :--- | :--- | :--- | :--- |
|  |  | 1 | process to find the length of one side, <br> eg $\sqrt{901}$ or $\sqrt{900}$ or $\sqrt{833.33 . .}$ |
|  |  | 1 | for 30 |


| Q Working | Answer | Mark | Notes |
| :--- | :--- | :--- | :--- | :--- |


| 11 | Lines (solid or dashed) $x=6$ and $y=2$ drawn |  | 3 | B1 The lines $x=6$ and $y=2$ should <br> extend far enough to intersect with each <br> other. |
| :---: | :--- | :--- | :--- | :--- |
|  | Line (solid or dashed) $y=x+1$ drawn |  | B1 The line should extend from at least <br> $x=1$ to $x=6$ or far enough to intersect <br> with their horizontal and vertical lines. |  |
| Region R shown (shaded or not shaded) | Correct region <br> identified |  |  |  |


| $\mathbf{Q}$ | Working | Answer | Mark | Notes |
| :--- | :--- | :--- | :--- | :--- |


| $\mathbf{1 2}$ | $n^{2} t^{3}=4 d+t^{3}$ | $n^{2}=\frac{4 d}{t^{3}}+1$ |  | M1 for multiplying by the denominator <br> or for dividing the RHS by $t^{3}$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | $t^{3}\left(n^{2}-1\right)=4 d$ oe | $n^{2}-1=\frac{4 d}{t^{3}}$ |  |  | M1 for isolating terms in $t^{3}$ and factorising the correct expression <br> of the equation <br> or for isolating the $\frac{4 d}{t^{3}}$ term |
|  | $t^{3}=\frac{4 d}{\left(n^{2}-1\right)}$ oe | $t^{3}=\frac{4 d}{\left(n^{2}-1\right)}$ |  | M1 for making $t^{3}$ the subject |  |



Q Working $\quad$ Answer |  | Mark | Notes |
| :--- | :--- | :--- |

|  |  |  |  | Total 8 marks |
| :--- | :--- | :--- | :--- | :--- |


| Q | Working | Answer | Mark | Notes |
| :---: | :---: | :---: | :---: | :---: |
| 14 | $\begin{aligned} & \frac{12}{4 x}+\frac{2(x+2)}{4 x}+\frac{x}{4 x} \text { oe or } \frac{12+2(x+2)+x}{4 x} \text { oe } \\ & \frac{3(8 x)}{8 x^{2}}+\frac{4 x(x+2)}{8 x^{2}}+\frac{2 x^{2}}{8 x^{2}} \text { oe or } \\ & \frac{3(8 x)+4 x(x+2)+2 x^{2}}{8 x^{2}} \text { oe } \end{aligned}$ |  | 3 | M1 for three correct fractions with a common denominator or a single correct fraction |
|  | $\begin{aligned} & \frac{12+2 x+4+x}{4 x} \text { oe or } \\ & \frac{24 x+4 x^{2}+8 x+2 x^{2}}{8 x^{2}} \text { oe or } \\ & \frac{6 x^{2}+32 x}{8 x^{2}} \text { oe or } \frac{3 x^{2}+16 x}{4 x^{2}} \text { oe or } \frac{6 x+32}{8 x} \text { oe } \end{aligned}$ |  |  | M1 for a correct single fraction with brackets expanded |
|  |  | $\frac{3 x+16}{4 x}$ |  | A1 oe $\frac{16+3 x}{4 x}$ |
|  |  |  |  | Total 3 marks |


| Q | Working | Answer | Mark | Notes |
| :---: | :---: | :---: | :---: | :---: |
| 15 | $\begin{aligned} & \begin{array}{l} A B C=90^{\circ} \text { and } A C B(=A D B)=180-90-55 \\ (=35) \\ \text { or } \\ A B O=55^{\circ} \text { and } A O B=180-2 \times 55(=70) \\ \text { or } \\ B D C=55^{\circ}, A D C=90^{\circ} \text { and } A D B=90-55(= \\ 35) \end{array} \\ & \hline \end{aligned}$ |  | 4 | M1 |
|  |  | 35 |  | A 1 for $A D B=35$ |
|  | Angles in a semicircle are $90^{\circ}$ <br> Angles in a triangle add to $180^{\circ}$ (Angles in a triangle add to $180^{\circ}$ ) <br> Angles in the same segment (are equal) OR angles at the circumference subtend(ed) from the same arc/chord of the circle (are equal) or <br> Angles in an isosceles triangle (are equal) Angles in a triangle sum to $180^{\circ}$ (Angles in a triangle add to $180^{\circ}$ ) <br> Angle at the centre is $2 \times$ (double) angle at circumference / angle at circumference is $\underline{1 / 2}$ angle at centre <br> or <br> Angles in the same segment (are equal) OR angles at the circumference subtend(ed) from the same arc/chord of the circle Angles in a semicircle are $90^{\circ}$ |  |  | B2 (dep on M1) for all 3 reasons appropriate to their method <br> B1 (dep on M1) for one correct circle theorem appropriate to their method) <br> NB For the third method only 2 reasons are required |
|  |  |  |  | Total 4 marks |


| Q | Working | Answer | Mark | Notes |
| :---: | :---: | :---: | :---: | :---: |
| 16 | $\begin{aligned} & 3\left(x^{2}+4 x\right)+19 \text { and } 3\left[(x+2)^{2}-2^{2}\right]+19 \text { or } \\ & 3\left(x^{2}+4 x+\frac{19}{3}\right) \text { and } 3\left((x+2)^{2}-2^{2}+\frac{19}{3}\right) \text { or } \\ & a=3 \text { and } 2 a b=12 \text { oe and } b^{2} a+c=19 \text { oe or } \\ & a=3 \text { and } b=\frac{12}{2 \times 3} \text { oe and } c=-\frac{12^{2}}{4 \times 3}+190 \mathrm{e} \end{aligned}$ |  |  | M1 for correctly taking out a factor of 3 and correctly completing the square or for equating coefficients by expanding $a(x+b)^{2}+c=a x^{2}+2 a b x+b^{2} a+c$ <br> or <br> for equating coefficients by using $a x^{2}+b x+c=a\left(x+\frac{b}{2 a}\right)^{2}-\frac{b^{2}}{4 a}+c$ |
|  |  | $3(x+2)^{2}+7$ |  | A1 accept $a=3, b=2, c=7$ |
|  |  |  |  | Total 2 marks |


| $\mathbf{1 7}$ (i) |  | 19 | 1 | B1 |
| :---: | :---: | :---: | :---: | :--- |
| (ii) | 0 | 1 | B1 |  |
| (iii) |  | 11 | 1 | B1 |
| (iv) |  | 28 | 1 | B1 |
|  |  |  |  | Total 4 marks |


| 18 | (a)(i) | $(-6,1)$ | 2 | B1 |
| :--- | :--- | :--- | :--- | :--- | :--- |


| Q Working Answer Mark Notes  <br> (b) $(-1,6),(3,-2),(7,6)$ $(-2,-4)$  B1 <br> (b) Fully correct graph 2 B2 for a fully correct graph <br> (B1 for a V shape with least value at <br> $(3,-2))$  <br> (c)  $-3,4$ 2 B2 for 2 correct values in any order <br> (B1 for 1 correct value) |
| :--- |


| $\mathbf{Q}$ | Working | Answer | Mark | Notes |
| :--- | :--- | :--- | :--- | :--- |


| 19 |  | $-\frac{4}{3}$ | 1 | B1 |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  | Total 1 mark |


| 20 | E.g. $n, n+1, n+2$ $\begin{aligned} & \left(n^{2}=\right) n^{2} \\ & \left((n+1)^{2}=\right) n^{2}+n+n+1=n^{2}+2 n+1 \mathrm{oe} \\ & \left((n+2)^{2}=\right) n^{2}+2 n+2 n+4=n^{2}+4 n+4 \mathrm{oe} \end{aligned}$ <br> or <br> E.g. $n-1, n, n+1$ $\begin{aligned} & \left((n-1)^{2}=\right) n^{2}-n-n+1=n^{2}-2 n+1 \mathrm{oe} \\ & \left(n^{2}=\right) n^{2} \\ & \left((n+1)^{2}=\right) n^{2}+n+n+1=n^{2}+2 n+1 \mathrm{oe} \end{aligned}$ |  | 3 | M1 for 3 appropriate terms for their 3 numbers and for correctly finding the expansion of at least 2 squares (Allow $2 \times$ middle number +2 ) |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & n^{2}+n^{2}+2 n+2 n+4\left(=2 n^{2}+4 n+4\right) \text { oe and } \\ & 2(n+1)^{2}=2 n^{2}+2 n+2 n+2\left(=2 n^{2}+4 n+2\right) \mathrm{oe} \end{aligned}$ <br> or $n^{2}-2 n+1+n^{2}+2 n+1\left(=2 n^{2}+2\right) \mathrm{oe}$ |  |  | M1 for finding the sum of first and last square and double the square of the middle <br> (Allow $2 \times$ middle number +2 ) |
|  | $\begin{aligned} & \text { E.g. } 2 n^{2}+4 n+4=2 n^{2}+4 n+2+2 \mathrm{oe} \text { or } \\ & 2(x+1)^{2}+2=2(x+1)^{2}+2 \mathrm{oe} \end{aligned}$ <br> or $2 n^{2}+2=2 n^{2}+2 \mathrm{oe}$ | Complete proof |  | A1 for conclusion from two correct expressions <br> e.g. $2 n^{2}+4 n+4$ and $2 n^{2}+4 n+2$ |



|  | Q | Wor | Answer | Mark |  |  | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 22 | $\begin{aligned} & \overrightarrow{O N}=) \lambda(\mathbf{a}+\mathbf{b})(=\lambda \mathbf{a}+\lambda \mathbf{b}) \text { or } \\ & (\overrightarrow{N Y}=)(1-\lambda)(\mathbf{a}+\mathbf{b})(=(1-\lambda) \mathbf{a}+(1-\lambda) \mathbf{b}) \end{aligned}$ |  |  |  |  | 5 | M1 for finding a vector for $\overrightarrow{O N}$ or $\overrightarrow{N Y}$ or $\overrightarrow{N O}$ or $\overrightarrow{Y N}$ in terms $\mathbf{a}$ and $\mathbf{b}$ and using $\lambda$ oe (can be embedded) |
|  | $\begin{aligned} & (\overrightarrow{M N}=\overrightarrow{M O}+\overrightarrow{O N}=)-0.5 \mathbf{a}+\lambda \mathbf{a}+\lambda \mathbf{b}(=(\lambda-0.5) \mathbf{a}+\lambda \mathbf{b}) \mathbf{o r} \\ & (\overrightarrow{M Z}=\overrightarrow{M O}+\overrightarrow{O Z}=)-0.5 \mathbf{a}+3 \mathbf{b o r}(\overrightarrow{M N}=\overrightarrow{M X}+\overrightarrow{X Y}+\overrightarrow{Y N}=) 0.5 \mathbf{a}+\mathbf{b}+(\lambda-1)(\mathbf{a}+\mathbf{b})(=(\lambda-0.5) \mathbf{a}+\lambda \mathbf{b}) \end{aligned}$ |  |  |  |  |  | M1 for finding a vector for $\overrightarrow{M N}$ or $\overrightarrow{N M}$ or $\overrightarrow{M Z}$ or $\overrightarrow{Z M}$ |
|  | $\begin{aligned} & (\overrightarrow{M N}=\mu \overrightarrow{M Z}=) \mu(-0.5 \mathbf{a}+3 \mathbf{b})(=-0.5 \mu \mathbf{a}+3 \mu \mathbf{b}) \mathbf{o r} \\ & (\overrightarrow{O N}=\overrightarrow{O M}+\overrightarrow{M N}=) 0.5 \mathbf{a}+\mu(-0.5 \mathbf{a}+3 \mathbf{b})(=(0.5-0.5 \mu) \mathbf{a}+3 \mu \mathbf{b}) \mathbf{o r} \\ & (\overrightarrow{N Y}=\overrightarrow{N M}+\overrightarrow{M X}+\overrightarrow{X Y}=)-\mu(-0.5 \mathbf{a}+3 \mathbf{b})+0.5 \mathbf{a}+\mathbf{b}(=(0.5+0.5 \mu) \mathbf{a}+(1-3 \mu) \mathbf{b}) \end{aligned}$ |  |  |  |  |  | M1 for finding a vector for $\overrightarrow{M N}$ or $\overrightarrow{O N}$ or $\overrightarrow{N Y}$ or $\overrightarrow{N M}$ or $\overrightarrow{N O}$ or $\overrightarrow{Y N}$ using another variable e.g. $\mu \mathrm{oe}$ |
|  | $\begin{gathered} -0.5 \mu=-0.5+\lambda \mathrm{oe} \\ 3 \mu=\lambda \mathrm{oe} \end{gathered}$ |  | $\begin{gathered} 1-\lambda=0.5 \mu+0.5 \mathrm{oe} \\ 1-\lambda=1-3 \mu \mathrm{oe} \end{gathered}$ |  |  |  | M1 for setting up two simultaneous equations using the components of a and $\mathbf{b}$ for $\overrightarrow{M N}$ or $\overrightarrow{O N}$ or $\overrightarrow{N Y}$ oe |
|  |  |  |  |  | $\frac{3}{7}$ |  | $\begin{aligned} & \text { A1 (allow } \frac{3}{7}= \\ & 0.42(8571 \ldots) \text { to } 2 \mathrm{sf} \\ & \text { truncated or rounded) } \end{aligned}$ |
|  |  |  |  |  |  |  | Total 5 marks |



| Q |  | Working |  |  |  |  |  | Answer |  | Mark |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Edexcel averages: scores of candidates who achieved grade: |  |  |  |  |  |  |  |  |
| Qn | Mean score | Max score | $\begin{array}{\|l\|} \hline \text { Mean } \\ \% \end{array}$ | ALL | 9 | 8 | 7 | 6 | 5 | 4 | 3 | U |
| 1 | 4.45 | 5 | 89 | 4.45 | 4.92 | 4.85 | 4.78 | 4.22 | 3.66 | 2.03 | 0.59 | 0.00 |
| 2 | 3.61 | 4 | 90 | 3.61 | 3.97 | 3.86 | 3.75 | 3.47 | 2.98 | 2.10 | 1.05 | 0.00 |
| 3 | 1.84 | 2 | 92 | 1.84 | 1.94 | 1.89 | 1.87 | 1.82 | 1.70 | 1.55 | 1.22 | 0.00 |
| 4 | 3.69 | 4 | 92 | 3.69 | 3.92 | 3.83 | 3.73 | 3.64 | 3.47 | 2.84 | 1.75 | 0.00 |
| 5 | 3.54 | 4 | 89 | 3.54 | 3.90 | 3.77 | 3.64 | 3.29 | 3.05 | 2.32 | 1.25 | 0.00 |
| 6 | 4.44 | 5 | 89 | 4.44 | 4.94 | 4.85 | 4.54 | 4.14 | 3.65 | 2.48 | 1.48 | 0.00 |
| 7 | 1.62 | 2 | 81 | 1.62 | 1.92 | 1.86 | 1.67 | 1.38 | 1.15 | 0.37 | 0.33 | 0.00 |
| 8 | 2.35 | 3 | 78 | 2.35 | 2.71 | 2.62 | 2.40 | 2.10 | 1.62 | 1.33 | 0.44 | 0.00 |
| 9 | 1.52 | 2 | 76 | 1.52 | 1.95 | 1.88 | 1.51 | 1.07 | 0.52 | 0.24 | 0.00 | 0.00 |
| 10 | 1.36 | 3 | 45 | 1.36 | 2.76 | 2.58 | 2.11 | 1.79 | 1.21 | 0.83 | 0.67 | 0.42 |
| 11 | 1.86 | 3 | 62 | 1.86 | 2.77 | 2.22 | 1.51 | 0.77 | 0.39 | 0.09 | 0.04 | 0.10 |
| 12 | 2.46 | 4 | 62 | 2.46 | 3.70 | 2.76 | 1.87 | 1.28 | 0.60 | 0.25 | 0.04 | 0.00 |
| 13 | 4.24 | 8 | 53 | 4.24 | 6.22 | 4.40 | 3.29 | 2.48 | 1.45 | 1.01 | 0.29 | 0.00 |
| 14 | 1.71 | 3 | 57 | 1.71 | 2.54 | 1.86 | 1.31 | 1.02 | 0.61 | 0.03 | 0.00 | 0.00 |
| 15 | 1.87 | 4 | 47 | 1.87 | 2.86 | 2.05 | 1.36 | 0.85 | 0.48 | 0.34 | 0.19 | 0.00 |
| 16 | 0.97 | 2 | 49 | 0.97 | 1.67 | 0.92 | 0.58 | 0.29 | 0.22 | 0.03 | 0.00 | 0.00 |
| 17 | 1.54 | 4 | 39 | 1.54 | 2.49 | 1.47 | 1.04 | 0.61 | 0.40 | 0.23 | 0.18 | 0.00 |
| 18 | 2.74 | 6 | 46 | 2.74 | 4.81 | 2.90 | 1.44 | 0.54 | 0.23 | 0.13 | 0.04 | 0.00 |
| 19 | 0.44 | 1 | 44 | 0.44 | 0.82 | 0.40 | 0.20 | 0.08 | 0.01 | 0.00 | 0.00 | 0.00 |
| 20 | 1.33 | 3 | 44 | 1.33 | 2.38 | 1.43 | 0.52 | 0.29 | 0.10 | 0.06 | 0.00 | 0.00 |
| 21 | 1.17 | 3 | 39 | 1.17 | 2.16 | 1.16 | 0.40 | 0.16 | 0.10 | 0.01 | 0.00 | 0.00 |
| 22 | 1.04 | 5 | 21 | 1.04 | 2.18 | 0.67 | 0.24 | 0.08 | 0.03 | 0.00 | 0.00 | 0.00 |
|  | 49.79 | 80 | 62 | 49.79 | 67.53 | 54.23 | 43.76 | 35.37 | 27.63 | 18.27 | 9.56 | 0.52 |

Q Working $\quad$ Answer $\quad$ Mark $\quad$ Notes

## Suggested grade boundaries

| Grade | $\mathbf{9}$ | $\mathbf{8}$ | $\mathbf{7}$ | $\mathbf{6}$ | $\mathbf{5}$ | $\mathbf{4}$ | $\mathbf{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :--- |
| Mark | 61 | 49 | 39 | 31 | 23 | 14 | 8 |

