

| 2 (a) | (0) (4) 3080136 (140) <br> (0) 10306015140 | $\begin{aligned} & \text { B1 } \\ & \text { B1 } \end{aligned}$ | 2 |
| :---: | :---: | :---: | :---: |
| (b) | Ignore plots at $x=0$ <br> [Accept two separate graphs] <br> All 10 other points plotted $\sqrt{ }$ <br> ( P 1 for at least 6 plotted $\sqrt{ }$ ) <br> [Some points may represent 2 plots] <br> 2 smooth curves, with at least one label, not grossly thick, through all appropriate plots of which at least 6 correct <br> Curves must be ogive shape (no negative gradients) | P2 C1 | 3 |
| (c)(i) | 64 to 68 | V1 |  |
| (ii) | Their (i) - (42 to 44) evaluated $\sqrt{ }$ | Q1 |  |
| (iii) | English 56 to 58 and Maths 63 to 65 | N1 | 3 |
| (d) | Maths easier $\sqrt{ }$, with sensible reason (e.g. greater median, or U.Q. L.Q. etc.) <br> (Follow through from their curves if labelled) <br> (There must be two curves) | R1 | 1 |
| (e)(i) | $\frac{12}{49} \text { cao }$ | B1 | 1 |
|  | $\begin{aligned} & \frac{4}{140} \times \frac{115}{140}+\frac{25}{140} \times \frac{136}{140} \\ & \frac{193 k}{980 k} \text { isw (e.g. } \frac{3860}{19600} \text { ) OR } 0.1965 \text { to } 0.1975 \text { OR } 19.65 \text { to } 19.75 \% \end{aligned}$ | M1 A2 | 2 |
|  | After M0 allow SCB1 for $\frac{3860}{140 \times 139}=\frac{3860}{19460}=\frac{193 k}{973 k}$ or 0.1980 to 0.1990 isw |  |  |
|  |  | 12 |  |


| 9 | (a) | (i) 54 to 56 <br> (ii) 28 to 30 |  |  |
| :--- | :--- | :--- | :---: | :---: | :---: |
| (b) | Mathematics + valid reason | 1 | e.g. because median is lower or both medians <br> stated. <br> because the curve for Maths is to the left <br> of/higher than the curve for English. <br> Comparisons at arbitrarily chosen points will be <br> 0 |  |


| 9 | (a) | (i) | 4 [minutes] 18 [seconds] | $\mathbf{1}$ |
| :--- | :--- | :--- | :--- | :--- |
|  | (ii) | 1 [minute] 0 [seconds] | $\mathbf{2}$ | $\mathbf{B 1}$ for attempt to read at 12.5 and 37.5 |
| (b) | $10,12,13,5,2$ | $\mathbf{2}$ | B1 for 3 correct |  |
| (c) | 17 [minutes] 30 [seconds] | $\mathbf{2}$ | B1 for three times only seen including 6, <br> $5: 30$ and time in range $5: 30<t \leqslant 6$ |  |

