Cambridge
Secondary 1
Checkpoint

## Cambridge International Examinations

Cambridge Secondary 1 Checkpoint

## MAXIMUM MARK: 50

| Question | 1 |  |  |  |  |  |
| :--- | :---: | :--- | :--- | :--- | :--- | :---: |
| Part | Mark | Answer |  | Further Information |  |  |
|  | 1 | 3 | 56 | $(72$ | 93 |  |
| 146 | 198 |  |  |  |  |  |
| Total | 1 |  |  |  |  |  |


| Question | 2 |  |  |  |
| :--- | :---: | :--- | :--- | :---: |
| Part | Mark | Answer | Further Information |  |
|  | 2 | 25 | Award 1 mark for 20, 15, 35 or <br> $\frac{7}{12}$ or $\frac{5}{12}$ |  |
| Total | 2 |  |  |  |


| Question | 3 |  |  |
| :--- | :---: | :--- | :--- |
| Part | Mark | Answer | Further Information |
| (a) | 2 | 8 and 29 | Award 1 mark for each. |
| (b) | 1 | $t=7 p-6$ |  |
| Total | 3 |  |  |
|  |  |  |  |


| Question | $\mathbf{4}$ |  |  |  |
| :--- | :---: | :--- | :--- | :---: |
| Part | Mark | Answer | Further Information |  |
| (a) | 1 | Any two sections with odd numbers and four <br> sections with even numbers. |  |  |
| (b) | 1 | $\frac{2}{3}$ | Or equivalent |  |
| Total | $\mathbf{2}$ |  |  |  |


| Question | 5 |  |  |
| :--- | :---: | :--- | :--- |
| Part | Mark | Answer | Further Information |
|  | 1 | 14 |  |
| Total | 1 |  |  |
|  |  |  |  |


| Question | 6 |  | Further Information |
| :--- | :---: | :--- | :--- |
| Part | Mark | Answer |  |
| (a) | 1 | $111\left(^{\circ}\right)$ | Angles in a triangle $=180^{\circ}$ <br> or <br> Angles on a straight line $=180^{\circ}$ <br> or <br> The external angle of a triangle is equal to <br> the sum of the opposite interior angles. <br> or <br> The sum of an interior angle and its exterior <br> angle $=180^{\circ}$ |
| (b) | 2 |  <br> Total |  |


| Question | 7 |  | Further Information |
| :--- | :---: | :--- | :--- |
| Part | Mark | Answer |  |
| (a) | 1 | $-7\left({ }^{\circ} \mathrm{C}\right)$ |  |
| (b) | 1 | $-10\left({ }^{\circ} \mathrm{C}\right)$ |  |
| Total | 2 |  |  |
|  |  |  |  |


| Question | $\mathbf{8}$ |  |  |
| :--- | :---: | :--- | :--- |
| Part | Mark | Answer | Further Information |
|  | 1 | 0.7 | Or equivalent <br> Do not accept ratios. |
| Total | 1 |  |  |


| Question | 9 |  |  |
| :---: | :---: | :---: | :---: |
| Part | Mark | Answer | Further Information |
|  | 2 | Two calculations to enable comparison e.g. $72 \%$ of $50=36$ and $\frac{1}{2}$ of $50=25$ <br> or <br> 38 marks is $76 \%$ (or equivalent) and $\frac{1}{2}=50 \%$ and <br> David scored the highest. | Do not award any marks for David with no correct working. <br> Award 1 mark for two correct calculations to enable comparison seen, but incorrect or no decision. |
| Total | 2 |  |  |


| Question | 10 |  |  |  |
| :--- | :---: | :--- | :--- | :---: |
| Part | Mark | Answer | Further Information |  |
|  | 1 | $0.7 \times 1000$ | 7 |  |
|  |  | $70 \times 0.1$ | 700 |  |
|  |  | 7000 |  |  |
|  |  | $700 \times 0.01$ | 7000 |  |


| Question | 11 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Part | Mark | Answer |  | Further Information |
|  | 1 |  |  | Both correct for the mark. |
|  |  | input | output |  |
|  |  | 1 | 5 |  |
|  |  | 6 | 15 |  |
|  |  | 9 | 21 |  |
|  |  | 15 | 33 |  |
| Total | 1 |  |  |  |


| Question | 12 |  |  |  |
| :--- | :---: | :--- | :--- | :---: |
| Part | Mark | Answer | Further Information |  |
| (a) | 1 | 38 |  |  |
| (b) | 1 | 45.6 |  |  |
| (c) | 1 | 4.56 |  |  |
| Total | 3 |  |  |  |


| Question | 13 |  |  |  |  |
| :--- | :---: | :--- | :--- | :--- | :---: |
| Part | Mark | Answer | Further Information |  |  |
|  | 1 | Award the mark for two $2 \times 3$ faces correctly <br> positioned, one on each side of the net, e.g. |  |  |  |


| Question | 14 |  |  |
| :---: | :---: | :---: | :---: |
| Part | Mark | Answer | Further Information |
| (a) | 1 |  | Accuracy in drawing $\pm \frac{1}{2}$ square |
| (b) | 1 | 80 minutes or equivalent | Accept answers in hours and minutes e.g. 1 hour 20 (minutes) <br> Follow through from (a) if their line reaches the top of the graph ( $\pm \frac{1}{2}$ square) |
| Total | 2 |  |  |


| Question | 15 |  |  |
| :--- | :---: | :--- | :--- |
| Part | Mark | Answer | Further Information |
|  | 1 | $0.2^{2}, \sqrt[3]{64}, \sqrt{25}, 3^{2}$ | Accept $0.04,4,5,9$ |
| Total | 1 |  |  |
|  |  |  |  |


| Question | 16 |  |  |  |
| :--- | :---: | :--- | :--- | :---: |
| Part | Mark | Answer | Further Information |  |
| (a) | 2 | 5.616 | Award 1 mark for attempting to <br> multiply 156 by 36 (condone <br> numerical errors but do not <br> accept place value errors). |  |
| (b) | 2 | 3.4 | Award 1 mark for correct <br> method (e.g. changing to <br> $54.4 \div 16)$ |  |
| Total | 4 |  |  |  |
|  |  |  |  |  |


| Question | 17 |  |  |
| :--- | :---: | :--- | :--- |
| Part | Mark | Answer | Further Information |$|$| Award 1 mark for sight of $n-3$ |
| :--- |
| or for an equation that simplifies |
| to 2n $-3=59$. |
| or |


| Question | 18 |  | Further Information |
| :--- | :---: | :--- | :--- | :--- |$|$| Part |
| :--- |



| Question | 20 |  | Further Information |
| :--- | :---: | :--- | :--- |$|$| Part | Mark | Answer | Award 1 method mark for <br> attempting to subtract two <br> relevant fractions by converting <br> to a common denominator (12 or <br> a multiple of 12). |
| :--- | :---: | :--- | :--- |
| (a) | 2 | $\frac{11}{12}$ or equivalent fraction | Award 1 method mark for <br> attempting to change to <br> improper fractions and <br> attempting to multiply <br> numerators and denominators <br> together. |
| (b) | 2 | $3 \frac{1}{5}$ or $\frac{16}{5}$ or equivalent fraction |  |
| Total | 4 |  |  |


| Question | $\mathbf{2 1}$ |  | Further Information |  |
| :--- | :---: | :--- | :--- | :--- |
| Part | Mark | Answer | 1 mark for sight of an arc of a <br> circle centred on $P$ and $Q$ with a <br> radius accurate to $\pm 2 \mathrm{~mm}$ <br> Accept any clear indication of <br> the correct region. |  |
| Total | 2 |  |  |  |


| Question | $\mathbf{2 2}$ |  |  |
| :--- | :---: | :--- | :--- |
| Part | Mark | Answer | Further Information |
| (a) | 1 | 19 |  |
| (b) | 1 | 40 |  |
| Total | 2 |  |  |
|  |  |  |  |



| Question | $\mathbf{2 4}$ |  |  |  |
| :--- | :---: | :--- | :--- | :---: |
| Part | Mark | Answer | Further Information |  |
| (a) | 1 | $32(\mathrm{~cm})$ |  |  |
| (b) | 1 | $165(\mathrm{~cm})$ | Award 1 mark for 1 correct <br> statement. |  |
| (c) | 2 | Two distinct and valid comparative <br> statements <br> e.g. <br> - Class 8B is taller <br> - The range of class B is larger <br> - The median of 8B is higher than 8A |  |  |
| Total | 4 |  |  |  |


| Question | $\mathbf{2 5}$ |  |  |
| :--- | :---: | :--- | :--- |
| Part | Mark | Answer | Further Information |$|$| Award 1 mark for finding profit of |
| :--- |
| $\$ 2$ or total \$7. |
| Award 1 mark for their profit |
| (including follow through from an |
| incorrect profit) $\div 20$ |
| or |

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