Year II Practice Paper 3F Calculator Mark Scheme

| Question |  | Answer | Notes and guidance |  |
| :--- | :--- | :--- | :--- | :--- |
| isosceles trapezium | Award I mark for two correct pairings |  |  |  |
| scalene triangle |  |  |  |  |
| triangular prism |  |  |  |  |

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| 2a | 2.436688337 | 2 | Award I mark for either numerator or denominator correctly evaluated |
| :---: | :---: | :---: | :---: |
| 2b | 2.44 | I | Follow through form their answer to part a provided if has three or more decimal places |
| 3a |  | I | Accept any clear indication on/above/below that line at $\frac{1}{2}$ |
| 3b |  | I | Accept any clear indication on/above/below that line at 0 |
| 4a | 19 | 1 |  |
| 4b | 31 | 2 | Award I mark for continuing sequence to find $5^{\text {th }}$ and $6^{\text {th }}$ term seen or implied |
| 4c | e.g. the number of tiles in a pattern is always odd | I | Accept any correct explanation |
| 5 | $\frac{12}{21}, \frac{400}{700}, \frac{28}{49}$ | 2 | Award I mark for finding two equivalent fractions |
| 6a | 2 and 16 | 2 | Award I mark for two factors of 48 stated that do not have a difference of 14 |
| 6b | 60 | 2 | Award I mark for listing some multiples of 12 and 15 |
| 7a | $8 x$ | I |  |
| 7b | $g^{2}+5 g$ | 2 | Award I mark for $g^{2}$ or $5 g$ stated |

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| 7c | $5 x(y+3)$ |  |  |  | 2 | Award I mark for a correct partial factorisation or $5 x$ identified as the highest common factor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | 7 |  |  |  | 2 | Award I mark for a correct first step to solve e.g. $\frac{1}{12}$ of $48=4$ or $336=\square \times 48$ |
| 9 a | $\times$ | 2 | 3 | 5 | 1 |  |
|  | 3 | 6 | 9 | 15 |  |  |
|  | 4 | 8 | 12 | 20 |  |  |
|  | 5 | 10 | 15 | 25 |  |  |
| 9b | $\frac{6}{9}=\frac{2}{3}$ |  |  |  | 2 | Award I mark for correct method to find probability from their table |
| 10a | $\frac{27}{100}$ |  |  |  | I |  |
| 10b | 65\% |  |  |  | 2 | Award I mark for a correct method seen or implied e.g. $91 \div 140$ or $\frac{13}{20}$ or 0.65 |
| 11 | No, 929 < 1000 |  |  |  | 2 | Award I mark for $107800 \div 116$ (=929.3 ...) seen or implied <br> Award 0 marks for "No" with no or insufficient supporting working |
| 12a | 36 |  |  |  | I |  |

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| 12b | 31 | 1 |  |
| :---: | :---: | :---: | :---: |
| 12c | e.g. the median score of class A was less than the median score of class B. <br> Class A's scores were less varied than Class B | 2 | Award I mark for a comparison of the median scores for each class Award I mark for a comparison of the spread of data for each class |
| 13 | $\angle A C D=41^{\circ}$ because vertically opposite angles are equal <br> $\angle A D C=78^{\circ}$ because corresponding angles in parallel lines are equal <br> $x=61^{\circ}$ because angles in a triangle add up to $180^{\circ}$ | 4 | Award I mark $\angle A C D=41^{\circ}$ or $\angle A D C=78^{\circ}$ stated (accept if indicated on their diagram) Award I mark for $x=61^{\circ}$ <br> Award I mark for one correctly stated reason provided to support working. Words underline (or their equivalent) must be stated. Award full marks for complete working with correct reasoning. |
| 14 | $960 \mathrm{~cm}^{2}$ | 3 | Award I mark for a correct method to find the area seen or implied e.g. $\frac{1}{2} \times 24 \times 80$ <br> Award I mark for 960 <br> Award I mark for $\mathrm{cm}^{2}$ |
| 15a | 15 | 2 | Award I mark for $10-(-5)$ seen or implied |
| I5b | 23.75 | 2 | Award I mark for $25-(1.25)$ seen or implied |
| 16 | 5 g | 3 | Award I mark for $600 \div 35$ seen or implied Award I mark for a correct method seen to find the mass left over e.g. $600-(35 \times 17)$ Condone missing units |


| 17a | 2.85 km | I | Accept 2850 m |
| :---: | :---: | :---: | :---: |
| 17b |  | 2 | Award I mark a bearing of $240^{\circ}$ correctly drawn from $B$ or an arc with radius 9.2 cm drawn from $B$ |
| 18a | $9 p-12$ | 1 | Accept 3(3p-4) |
| 18b | 17 (cm) | 2 | Award I mark for forming and attempting to solve an equation in $p$ e.g. $9 p-12=141$ |

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| 22 b | $\mathrm{I}: 0.75$ | I |  |
| :---: | :--- | :---: | :--- |
| 23 a | $£ \mathrm{I} 5300$ | 2 | Award I mark for $I 8000 \times 0.85$ or equivalent <br> full method seen or implied <br> Condone missing $\ell$ |
| 23 b | $£ 2 \mathrm{I} 000$ | 2 | Award I mark for $I 7850 \div 0.85$ or equivalent <br> full method seen or implied <br> Condone missing $\ell$ |
| 24 | $h=4$ | 3 | Award I mark for a correct use of formula for <br> area of a trapezium e.g. $\frac{1}{2}(I 3+7) h=40$ <br> Award I mark for correct first step to solve |
| e.g. $I 3+7) h=40$ |  |  |  |

