## GCSE (9-1)

## Mathematics

## J560/03: Paper 3 (Foundation tier)

General Certificate of Secondary Education

Mark Scheme for November 2021

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

Annotations available in RM Assessor. These must be used whenever appropriate during your marking.

| Annotation | Meaning |
| :---: | :---: |
| $\geqslant$ | Correct |
| 3 | Incorrect |
| BOD | Benefit of doubt |
| FT | Follow through |
| ISW | Ignore subsequent working (after correct answer obtained), provided method has been completed |
| M0 | Method mark awarded 0 |
| M1 | Method mark awarded 1 |
| M2 | Method mark awarded 2 |
| A1 | Accuracy mark awarded 1 |
| B1 | Independent mark awarded 1 |
| B2 | Independent mark awarded 2 |
| MR | Misread |
| $\bigcirc \mathrm{SC}$ | Special case |
| $\wedge$ | Omission sign |
| BP | Blank page |
| SEEN | Seen |

For a response awarded zero (or full) marks a single appropriate annotation (cross, tick, M0 or $\wedge$ ) is sufficient, but not required.
For responses that are not awarded either 0 or full marks, you must make it clear how you have arrived at the mark you have awarded and all responses must have enough annotation for a reviewer to decide if the mark awarded is correct without having to mark it independently.

## It is vital that you annotate standardisation scripts fully to show how the marks have been awarded.

## Subject-Specific Marking Instructions

1. $\mathbf{M}$ marks are for using a correct method and are not lost for purely numerical errors.

A marks are for an accurate answer and depend on preceding $\mathbf{M}$ (method) marks. Therefore M0 A1 cannot be awarded.
$\mathbf{B}$ marks are independent of $\mathbf{M}$ (method) marks and are for a correct final answer, a partially correct answer, or a correct intermediate stage.
SC marks are for special cases that are worthy of some credit.
2. The following abbreviations are commonly found in GCSE Mathematics mark schemes.

- figs 237, for example, means any answer with only these digits. You should ignore leading or trailing zeros and any decimal point e.g. 237000, 2.37, $2.370,0.00237$ would be acceptable but 23070 or 2374 would not
- isw means ignore subsequent working after correct answer obtained and applies as a default.
- nfww means not from wrong working.
- oe means or equivalent.
- rot means rounded or truncated.
- soi means seen or implied.
- dep means that the marks are dependent on the marks indicated. You must check that the candidate has met all the criteria specified for the mark to be awarded.
- with correct working means that full marks must not be awarded without some working. The required minimum amount of working will be defined in the guidance column and SC marks given for unsupported answers.

3. Anything in the mark scheme which is in square brackets [...] is not required for the mark to be earned, but if present it must be correct.
4. Unless the command word requires that working is shown and the working required is stated in the mark scheme, then if the correct answer is clearly given and is not from wrong working full marks should be awarded.

Do not award the marks if the answer was obtained from an incorrect method, i.e. incorrect working is seen and the correct answer clearly follows from it.
5. Where follow through (FT) is indicated in the mark scheme, marks can be awarded where the candidate's work follows correctly from a previous answer whether or not it was correct. For questions with FT available you must ensure that you refer back to the relevant previous answer. You may find it easier to mark these questions candidate by candidate rather than question by question.

Figures or expressions that are being followed through are sometimes encompassed by single quotation marks after the word their for clarity, e.g. FT $180 \times$ (their ‘ 37 ’ +16 ), or FT $300-\sqrt{ }($ their ‘ $52+72$ '). Answers to part questions which are being followed through are indicated by e.g. FT $3 \times$ their (a).
6. In questions with no final answer line, make no deductions for wrong work after an acceptable answer (i.e. isw) unless the mark scheme says otherwise, indicated by the instruction 'mark final answer'.
7. In questions with a final answer line and incorrect answer given:
(i) If the correct answer is seen in the body of working and the answer given on the answer line is a clear transcription error allow full marks unless the mark scheme says 'mark final answer'. Place the annotation $\checkmark$ next to the correct answer.
(ii) If the correct answer is seen in the body of working but the answer line is blank, allow full marks. Place the annotation $\checkmark$ next to the correct answer.
(iii) If the correct answer is seen in the body of working but a completely different answer is seen on the answer line, then accuracy marks for the answer are lost. Method marks could still be awarded if there is no other method leading to the incorrect answer. Use the M0, M1, M2 annotations as appropriate and place the annotation $\times$ next to the wrong answer.
8. In questions with a final answer line:
(i) If one answer is provided on the answer line, mark the method that leads to that answer. A correct step, value or statement that is not part of the method that leads to the given answer should be awarded M0 and/or B0.
(ii) If more than one answer is provided on the answer line and there is a single method provided, award method marks only.
(iii) If more than one answer is provided on the answer line and there is more than one method provided, award marks for the poorer response unless the candidate has clearly indicated which method is to be marked.
9. In questions with no final answer line:
(i) If a single response is provided, mark as usual.
(ii) If more than one response is provided, award marks for the poorer response unless the candidate has clearly indicated which response is to be marked.
10. When the data of a question is consistently misread in such a way as not to alter the nature or difficulty of the question, please follow the candidate's work and allow follow through for $\mathbf{A}$ and $\mathbf{B}$ marks. Deduct 1 mark from any $\mathbf{A}$ or $\mathbf{B}$ marks earned and record this by using the MR annotation. M marks are not deducted for misreads. If a candidate corrects the misread in a later part, do not continue to follow through, but award $\mathbf{A}$ and $\mathbf{B}$ marks for the correct answer only.
11. Unless the question asks for an answer to a specific degree of accuracy, always mark at the greatest number of significant figures even if this is rounded or truncated on the answer line. For example, an answer in the mark scheme is 15.75 , which is seen in the working. The candidate then rounds or truncates this to $15.8,15$ or 16 on the answer line. Allow full marks for the 15.75 .
12. Ranges of answers given in the mark scheme are always inclusive.
13. For methods not provided for in the mark scheme give as far as possible equivalent marks for equivalent work. If in doubt, consult your Team Leader.
14. If in any case the mark scheme operates with considerable unfairness consult your Team Leader.

| Question |  |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | (a) | (i) | 10 | , |  |  |
|  |  | (ii) | 7 | 1 |  |  |
|  | (b) |  | RomCom | 1 |  |  |
|  | (c) |  | 20 | 2 | M1 for $3_{[+]}{ }_{[++]} 5_{[+]} 7_{[++} 3$ seen | May be on graph |
|  | (d) |  | 4:5 | 3 | B1 for 25 or (45 - their 20) M1 for their 20 : their 25 OR <br> M2 for $\frac{4}{9}: \frac{5}{9}$ seen <br> or <br> M1 for $\frac{20}{45}: \frac{25}{45}$ oe seen <br> If 0 scored, SC 1 for answer $5: 4$ | Their Yr 10 from (c) <br> Their 25 is any value from 12 to 44 May be on answer line For M1 ratio must be seen and not implied from a "simplified" version 20:25 implies B1 M1 25 : 20 implies B1 oe $0.444[\ldots]$ : ( 0.555 to 0.556 ) |
| 2 | (a) |  | 43 | 1 |  |  |
|  | (b) |  | 1024 | 1 |  |  |



| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | (a) | $\frac{90}{360}$ oe fraction | 1 |  | Expect $\frac{1}{4}$ but ignore attempts to cancel initially correct fraction but not convert to decimal or percentage <br> Answer 0.25 after $\frac{1}{4}$ seen scores 0 |
|  | (b) | Yes oe and <br> [in 2020] they won more matches (or double the number of matches) than [in 2019] oe or The win fraction went up to $1 / 2$ oe [from $1 / 4 \mathrm{oe}$ ] The win fraction got bigger | 1 |  | See appendix <br> Must be clear reference to win not "it" <br> Do not allow comparing with unlike (e.g. W and L) only unless clearly indicating that $W$ replaced $L$ as majority" oe $1 / 2$ or $1 / 4$ may be degrees Allow error in 2020 win fraction Must be an implied comparison |
| 5 |  | 702 | 3 | $\begin{aligned} & \hline \text { M2 for } 600 \times 1.17 \text { oe } \\ & \text { or } \\ & \text { M1 for } 600 \times[0] .17 \text { oe soi by } 102 \end{aligned}$ | May be 600 + their 102 from valid attempt at $17 \%$ <br> May be Non-Calculator <br> eg $[10 \%=] 60,[5 \%=] 30,[1 \%=] 6$, <br> [2\%] = 12 and sum of their 60, 30 and 12 <br> Must have labels or correct processes |
| 6 | (a) | 60, 120, 60, 120 | 1 |  | Accept in any order or only on diagram <br> Must be 120 and not 60 \| 60 or 60+60 |
|  | (b) | 30, 120, 30 | 2 | M1 for diagram with longer diagonal drawn only | May be on original drawing If diagram redrawn then diagonal must join "other two" vertices |
| 7 |  | 3 | 2 | M1 for $6 \div 2$ oe |  |


| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 8 |  | $4 t+2 u \quad$ final answer | 2 | B1 for $4 t$ or $2 u$ seen |  |
| 9 | (a) |  | 3 | B2 for one element misplaced or repeated or missing or <br> B1 for one correct region | Condone 1 and/or 2 repeated |
|  | (b) | [Venn diagram] 2 and [because] odd numbers cannot be multiples of 2 oe and no contradictions | 2 | B1 for choice of diagram 2 | Must justify using properties of elements. <br> Accept "Odd numbers cannot be even" and "All multiples of 2 are even" |
| 10 |  | 162 | 4 | B1 for [Area of face =] 9 <br> B1 for [Total number of faces =] 18 <br> M1 for their number of faces $\times$ their 9 <br> Alternative <br> B1 for [area of face=] 9 <br> B1 for [total surface area of cube=] 54 <br> M1 for their $54 \times 4-6 \times$ their 9 oe <br> Alternative <br> B1 for [area of face=] 9 <br> M1 for $24 \times$ their 9 soi 216 <br> M1 for their 216-6×their 9 | e.g. $4+4+3+3+2+2$ or $5+4+4+5$ May be in stages e.g. $5 \times 9+4 \times 9+$ etc <br> Accept other alternative methods |


| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | (a) | $a+2 b$ cao | 1 |  | Do not accept extras |
|  | (b) | $2 y<x$ cao | 1 |  | Do not accept extras |
|  | (c) | $2 x=5$ cao | 1 |  | Do not accept extras |
| 12 |  | $w=\frac{P-2 h}{2} \mathrm{oe}$ | 2 | M1 for $\frac{P-2 h}{2}$ oe or correct first step eg $P-2 h=2 w$ or $\frac{P}{2}=\frac{2 w}{2}+\frac{2 h}{2}$ or for next correct step towards isolating $w$ following first error | Note $w=\frac{2 h-P}{-2}$ oe is correct May be $\frac{P}{2}=w+h$ <br> e.g. Following $2 w=P+2 h$ $\mathrm{w}=\frac{P+2 h}{2}$ |
| 13 |  | 40 with correct working | 5 | B1 for 2800 [cm] or [0].6[0] [m] <br> M1 for $\frac{\text { figs } 28}{\text { figs } 6}$ soi 46.6 to 46.7 or $46 \frac{40}{60}$ oe <br> M1 for their 46.6... truncated soi 46 M1 for figs 28 - their $46 \times$ figs 6 <br> If 0 scored with no/ insufficient working SC2 for answer 40 or <br> SC1 for answer 0.4 | If both seen and one incorrect award B0 <br> Correct working requires all part marks soi <br> At least 4 repeated additions or repeated subtraction May have indication of continuing <br> 46 implies M2 B1 <br> 2800-2760 implies M3 B1 <br> May be (their 46.6... - 46) $\times 60$ |


| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | (a) | 5120 | 1 |  |  |
|  | (b) | Topozero, Tana, Mweru, Ladoga, Victoria or 986, 3200, 5120, 18 100, 68900 oe in standard form | 2 | B1 for Topozero as smallest or Victoria as largest or all in correct reverse order | $\begin{aligned} & 9.86 \times 10^{2}, 3.20 \times 10^{3}, 5.12 \times 10^{3}, \\ & 1.81 \times 10^{4}, 6.89 \times 10^{4} \text { condoning } \\ & \text { superfluous zeros and slip in index } \end{aligned}$ |
|  | (c) | $1.5 \times 10^{4} \mathrm{nfww}$ isw | 4 | B3 for 15000 oe or 1.49[0..] $\times 10^{4}$ or <br> B2 for 14900 oe <br> or <br> M1 for figs 181 - figs 32 <br> If 0 scored <br> SC1 for their value correctly rounded to 2 significant figures | e.g. 15000 may be $15 \times 10^{3}$ <br> Subtraction may be implied e.g. by figs 15 or figs 149 <br> Their unrounded value must be seen |
| 15 | (a) | 285 | 2 | M1 for $\frac{760}{(2+3+3)}$ soi 95 |  |
|  | (b) | 24 | 2 | M1 for $\frac{2}{3} \times 36$ oe | Allow (0.66 or 0.7 ) $\times 36$ for M1 only |


| Question |  | Answer | Mark <br> s | Part marks and guidance |  |  |
| :--- | :--- | :--- | :--- | :---: | :--- | :--- |
| $\mathbf{1 6}$ | (a) |  | Triangle at (-8, 6), (-8, 2), (0, 6) | $\mathbf{2}$ | B1 for reflection in $x=k$ or in $y=0$ | Mark intention, condone freehand |
| (b |  |  |  |  |  |  |



| Question | Answer | $\begin{gathered} \text { Mark } \\ \mathbf{s} \end{gathered}$ | Part marks and guidance |
| :---: | :---: | :---: | :---: |
| ${ }_{1}^{(b)}$ | 72 [seconds] <br> $\frac{40}{60} \times$ their 72 oe or $\frac{52}{\text { their } 72} \times 60$ oe <br> OR <br> 1.2 oe <br> $40 \times$ their 1.2 oe or $52 \div$ their 1.2 <br> AND <br> 48 or 43.[3...] <br> and short/shorter word length oe | B1 <br> M1 <br> B1 <br> M1 <br> A1 | oe may be $1 \frac{12}{60}$ oe their 1.2 is not 1.12 <br> Ignore non-contradictory statements but, "He may type faster" is incorrect and, if included, scores A0 |



| Question Answer |  | Marks | Part marks and guidance |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :--- | :--- |
| 21 | (a) | 2 cao | $\mathbf{1}$ |  |  |  |
|  | (b) | (i) | $y=2 x+3$ | $\mathbf{1}$ |  | Allow, "The first one" oe for <br> $y=2 x+3$ |
| (ii) | Comment: <br> Rejecting 4 [as gradient] <br> and/or <br> indicating $2>\frac{1}{2}$ | $\mathbf{1}$ |  | See appendix |  |  |
|  | (c) | $2 \times 45-1$ soi 89 <br> or <br> $(90+1) \div 2$ soi 45.5 oe <br> Below | M1 |  |  |  |


| Question |  |  | Answer <br> $x \times x$ or $4(2 x+5)$ seen $x^{2}=8 x+20 \text { or } x^{2}=4(2 x+5)$ <br> Correctly rearranging to $x^{2}-8 x-20=0$ without error | Marks <br> M1 <br> M1 <br> A1 | Part marks and guidance |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 22 | (a) |  |  |  | Dependent on first M1 and not from rearrangement of original equation | Allow [area of] square $=x^{2}$ or [area of] rectangle $=8 x+20$ <br> $x^{2}$ and /or $8 x+20$ may be written with correct shape(s) |  |  |  |  |
|  | (b) |  | -2 10 nfww | 3 | B2 for one correct solution nfww <br> OR <br> M2 for $(x+2)(x-10)=0$ <br> or <br> M1 for $(x+a)(x+b)$ where $a b=-20$ or $a+b=-8$ <br> OR <br> M2 for two correct trials using $-4 \leq x \leq$ 0 and two correct trials using $8 \leq x \leq 12$ or <br> M1 for two correct trials using $-4 \leq x \leq$ 0 or two correct trials using $8 \leq x \leq 12$ <br> If 0 scored $\mathbf{S C 1}$ for answers 2 and -10 | e.g. one $2^{2}-8$ Accept <br> $x$ <br> -4 <br> -3 <br> -2 <br> -1 <br> 0 | rial is <br> -20 <br> trial <br> 16 <br> 9 <br> 4 <br> 1 <br> 0 <br> 64 <br> 81 <br> 100 <br> 121 <br> 144 | when <br> $=-3$ <br> $=2$ <br> 32 <br> 24 <br> 16 <br> 8 <br> 0 <br> -64 <br> -72 <br> -80 <br> -88 <br> -96 | $\begin{aligned} & \hline x=2 \\ & \hline-20 \\ & \hline-20 \\ & \hline-20 \\ & \hline-20 \\ & \hline-20 \\ & \hline-20 \\ & \hline-20 \\ & \hline-20 \\ & \hline-20 \\ & \hline-20 \\ & \hline \end{aligned}$ | 28 <br> 13 <br> 0 <br> -11 <br> -20 <br> -20 <br> -11 <br> 0 <br> 13 <br> 28 |
|  | (c) |  | Length [of square] cannot be negative | 1 | Dependent on negative answer in (b) | Do not accept $x$ cannot be negative |  |  |  |  |
|  | (d) | (i) | 100 | 1 1 | FT (their positive root from (b) ) ${ }^{2}$ FT (their positive root from (b) ) $\times 2+5$ | If two positive roots seen in (b) accept either or both used in (i) and in (ii) BUT, if one answer right and one wrong in any part, 0 marks |  |  |  |  |



## APPENDIX

Exemplar responses for Q4b

| Response |  | Mark |
| :---: | :---: | :---: |
| Yes They lost fewer matches [in 2020] |  | 1 |
| Yes The sector for win is bigger[in 2020] | Implied comparison by "biggER" | 1 |
| Yes Win is a half and it was a quarter oe | Comparison of like with like | 1 |
| Yes the fraction/number/ of wins doubled |  | 1 |
| Yes in 2020 they won more than 2019 and lost less | Ignore the last three words | 1 |
| Yes the win rate increased by another $1 / 4$ | BOD if "another" missing. Indicates improvement | 1 |
| They improved because they won $\frac{2}{3}$ when they won $\frac{1}{3}$ before | BOD means double following $\frac{1}{3}$ seen in (a) | 1 |
| Yes they have won much more than last at least $170^{\circ}$ | Condone the "at least 170" | 1 |
| Yes In 2019 they lost the most and in 2020 they won the most | Unlike but indicates majority has changed | 1 |
| Yes They got an extra half of wins than in 2019 | BOD "extra half". Implies improvement | 1 |
| Yes The win section is larger than draw which is $1 / 4$, which is $w$ | they won beforeImplies "Win larger than $1 / 4$ and <br> "before" implies 2019 | 1 |
| Yes In 2020 the team won 50\% of their matches which is $1 / 4 \mathrm{mo}$ | than 2019 BOD the $1 / 4$ more. Implies improvement | 1 |
| Yes The pie chart in 2020 shows the team won $1 / 2$ | No comparison stated | 0 |
| Yes it went from $1 / 4$ to $1 / 2$ | Do not condone "it" for "win" | 0 |
| Yes It's $\frac{1}{4}$ [in 2019] and now [in 2020] it's $\frac{1}{2}$ | Unclear what "its" refers to. Must be clearly WIN | 0 |
| Yes They won half instead of lost half | No marks as don't compare like with like (They could still have won half in 2019) | 0 |
| Yes The fraction has gone up to a half | Not clearly about wins | 0 |
| Yes $1 / 2$ of the matches won and only $1 / 4$ lost | No marks as don't compare like with like | 0 |

Exemplar responses for Q9b

| Response |  | Mark |
| :--- | :--- | :--- |
| 2 | because odds and multiples of 2 are different | $\mathbf{2}$ |
| 2 | L and M have nothing in common | Both marks earned |
| 2 | There won't be any numbers to fit both | 1 mark for 2 and BOD the reason implying nothing in common |
| 2 | No numbers in each set share the same values therefore they are split and separate in set 2 1 mark for 2 and BOD | $\mathbf{2}$ |
| the "values" for "properties". Set 2 means "Diagram 2" | $\mathbf{2}$ |  |
| 2 | None of the numbers are in the same group | 1 mark for 2 |
| 2 | because odds are different | 1 mark for "2" reason insufficient as doesn't say different to what |
| 2 | both of them are equal as it has no middle | $\mathbf{1}$ mark for "2" reason incorrect |
| 1 | anything | $\mathbf{1}$ |

## Exemplar responses for Q17b(i)

| Response | Mark |
| :---: | :---: |
| The frequency of 2 is much lower than for the rest of the numbers OK as MUCH lower (and for 2) | 1 |
| 6 has a much larger number than the all the other numbers Allow for "much" [and mention of the other numbers] | 1 |
| Frequency of rolling the numbers are very high compared to others such as $27-75$ big difference implying 2 and 6 and a BIG difference | 1 |
| It lands on a certain number most of the time Does not say which number and most is not enough | 0 |
| It has a higher chance of landing on the same number Does not say much higher or which number | 0 |
| It may be biased as the frequency of a number changes all the time Only different not very different | 0 |
| Because 6 was rolled 75 times Does not compare to other numbers or mention expected frequency | 0 |
| One number was rolled the most Not enough as most could just be one more | 0 |
| 6 seemed to be landed on more than any other Does not mention MUCH oe | 0 |
| Dice landed on 6, 75 times Doesn't compare using MUCH oe | 0 |
| The number 6 was most frequent and 2 was least frequent Doesn't mention MUCH oe | 0 |
| It's bound to land on every number almost the same number of times And so... nothing said to answer the question | 0 |
| Number is considerably higher than all the others Doesn't say "Some numbers" or identify 6 | 0 |
| Some numbers have a higher frequency that others Doesn't mention MUCH oe | 0 |

Exemplar responses for Q17b(ii)

| Response | Mark |  |
| :--- | :--- | :--- |
| It has not been thrown enough times | Indicates needs more trials | $\mathbf{1}$ |
| It depends on how you throw the dice | $\mathbf{0}$ | $\mathbf{0}$ |
| The larger/smaller numbers may just be anomalies $\quad$ Does not indicate needs more trials |  |  |
| It could land on any number at any time, there is no specific way to get a certain number Does not indicate needs more trials | $\mathbf{0}$ |  |

## Exemplar responses for Q21b(ii)

| Response |  | Mark |
| :--- | :--- | :--- |
| The number before $x$ is bigger in the first one | Compares the numbers for gradient | $\mathbf{1}$ |
| The 4 is not the gradient, it is the $y$ intercept. The gradient is $1 / 2$ | OK, Rejects gradient | $\mathbf{1}$ |
| Because it is only half whereas $y=2 x+3$ is the steepest | BOD $1 / 2$ for gradient and implied comparison with 2 | $\mathbf{1}$ |
| The number added is the $[y]$ intercept and not the gradient | OK, rejects constant | $\mathbf{1}$ |
| It has the smallest gradient which is $1 / 2$ | BOD implied comparison of gradients | $\mathbf{1}$ |
| You halve the $x$ making it closer to $x$ | inconclusive statement and doesn't compare numbers | $\mathbf{0}$ |
| It's actually the least steep | True but no reason given | $\mathbf{0}$ |
| Because $1 / 2$ isn't the highest number | Doesn't compare the gradients $1 / 2$ and 2. There are lots of | $\mathbf{0}$ |

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