# GCSE <br> MATHEMATICS 8300/1F 

Foundation Tier Paper 1 Non-Calculator
Mark scheme
June 2022
Version: 1.0 Final


Mark schemes are prepared by the Lead Assessment Writer and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students' scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the Lead Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

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## Glossary for Mark Schemes

GCSE examinations are marked in such a way as to award positive achievement wherever possible. Thus, for GCSE Mathematics papers, marks are awarded under various categories.

If a student uses a method which is not explicitly covered by the mark scheme the same principles of marking should be applied. Credit should be given to any valid methods. Examiners should seek advice from their senior examiner if in any doubt.

M Method marks are awarded for a correct method which could lead to a correct answer.

A

B Marks awarded independent of method.
ft

SC Special case. Marks awarded for a common misinterpretation which has some mathematical worth.

M dep A method mark dependent on a previous method mark being awarded.

B dep A mark that can only be awarded if a previous independent mark has been awarded.
oe $\quad$ Or equivalent. Accept answers that are equivalent. eg accept 0.5 as well as $\frac{1}{2}$
[a, b] Accept values between $a$ and $b$ inclusive.
$[a, b) \quad$ Accept values $a \leqslant$ value $<b$
3.14... Accept answers which begin 3.14 eg 3.14, 3.142, 3.1416

Use of brackets It is not necessary to see the bracketed work to award the marks.

Examiners should consistently apply the following principles.

## Diagrams

Diagrams that have working on them should be treated like normal responses. If a diagram has been written on but the correct response is within the answer space, the work within the answer space should be marked. Working on diagrams that contradicts work within the answer space is not to be considered as choice but as working, and is not, therefore, penalised.

## Responses which appear to come from incorrect methods

Whenever there is doubt as to whether a student has used an incorrect method to obtain an answer, as a general principle, the benefit of doubt must be given to the student. In cases where there is no doubt that the answer has come from incorrect working then the student should be penalised.

## Questions which ask students to show working

Instructions on marking will be given but usually marks are not awarded to students who show no working.

## Questions which do not ask students to show working

As a general principle, a correct response is awarded full marks.

## Misread or miscopy

Students often copy values from a question incorrectly. If the examiner thinks that the student has made a genuine misread, then only the accuracy marks (A or B marks), up to a maximum of 2 marks are penalised. The method marks can still be awarded.

## Further work

Once the correct answer has been seen, further working may be ignored unless it goes on to contradict the correct answer.

## Choice

When a choice of answers and/or methods is given, mark each attempt. If both methods are valid then M marks can be awarded but any incorrect answer or method would result in marks being lost.

## Work not replaced

Erased or crossed out work that is still legible should be marked.

## Work replaced

Erased or crossed out work that has been replaced is not awarded marks.

## Premature approximation

Rounding off too early can lead to inaccuracy in the final answer. This should be penalised by 1 mark unless instructed otherwise.

## Continental notation

Accept a comma used instead of a decimal point (for example, in measurements or currency), provided that it is clear to the examiner that the student intended it to be a decimal point.

| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| 1(a) | 30 | B1 |  |


| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| 1(b) | -2 | B1 |  |


| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| 1(c) | -9 | B1 |  |


| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| $\mathbf{2}$ | $P=2 r$ | B1 |  |



| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 4 | 22-4 or 18 <br> or $22 \div 2$ or 11 <br> or $4 \div 2$ or 2 | M1 | oe |  |
|  | their $18 \div 2$ <br> or their 11 - their 2 | M1dep | oe |  |
|  | 9 | A1 | may be seen on diagram SC1 20 or 14 |  |
|  | Additional Guidance |  |  |  |
|  | Ignore units or incorrect statements eg the lines are parallel |  |  |  |
|  | Condone poor notation eg $22-4 \div 2=9$ |  |  | M1M1A1 |
|  | Embedded answer of 9 |  |  | M1M1A0 |



| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 6(a) | 20 or 19 <br> and <br> no incorrect evaluations and <br> 3rd box indicated | B2 | oe eg 30 and 29 and no incorrect evaluations and 3rd box indicated <br> B1 20 or 19 <br> or incorrect values seen and correct box indicated for their values <br> SC1 3rd box indicated but no evaluations seen |  |
|  | Additional Guidance |  |  |  |
|  | 14 and 39 and 1st box indicated |  |  | B1 |
|  | Ignore any incorrect statements such as $20<19$ if the correct box is ticked as they may be checking each statement |  |  |  |


| Q | Answe | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 6(b) | 34 | B2 | B1 $(60 \div 2=30$ <br> or (their $60 \div 2$ ) +4 evaluated |  |
|  | Additional Guidance |  |  |  |
|  | Condone poor notati eg $60 \div 2=30+4=$ |  |  | B2 |
|  | $\begin{aligned} & 60 \div 2=20, \text { answer } \\ & 60 \div 2=20,20+4= \\ & 60 \div 2=20,20+4 \end{aligned}$ | aluatio |  | $\begin{aligned} & \mathrm{B} 1 \\ & \mathrm{~B} 1 \\ & \mathrm{~B} 0 \end{aligned}$ |
|  | Condone $2 \div 60=30$ |  |  | B1 |
|  | $60 \div 6=10$ |  |  | B0 |



| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 8(a) | Five numbers with mode 8 and median 12 | B2 | B1 five numbers with mode 8 eg 25888 or 8101948 or <br> five numbers with median 12 <br> eg -36121420 <br> or 710181216 |  |
|  | Additional Guidance |  |  |  |
|  | 88121625 |  |  | B2 |
|  | 88888 |  |  | B1 |
|  | 1212121212 |  |  | B1 |
|  | Do not allow bimodal sets eg 88121213 <br> eg 778810 | for mod | 8 but median may still be 12 | $\begin{aligned} & \text { B1 } \\ & \text { B0 } \end{aligned}$ |
|  | A set of four or more than five the median is 12 <br> eg 8811132021 <br> eg 881617 | may | B1 if the mode is 8 and | $\begin{aligned} & \mathrm{B} 1 \\ & \mathrm{~B} 1 \end{aligned}$ |


| Q | Answer | Mark | Comments |  |
| :---: | :--- | :---: | :---: | :---: |
| 8(b) | 159 | B1 |  |  |
|  | Mark answer line but if blank allow unambiguous selection in the list of <br> heights |  |  |  |
|  | Addional Guidance |  |  |  |


| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 9 | $\frac{50}{100} \times 14$ or 7 | M1 | oe eg $14 \div 2$ |  |
|  | $14-5+1 \text { or } 10$ <br> or their $7-5+1$ or 3 | M1 | oe <br> their 7 must be an integer, where $4<$ their $7<14$ <br> 3 implies M1M1 |  |
|  | $\begin{aligned} & \frac{3}{10} \\ & \text { or } \\ & 3: 7 \end{aligned}$ | A1 | oe |  |
|  | 30 | B1ft | ft their $\frac{3}{10}$ correctly converted to a percentage |  |
|  | Additional Guidance |  |  |  |
|  | For the B1ft, their percentage | correc | 2sf or better |  |
|  | 30 on the answer line with no | workin |  | M2A1B1 |
|  | 3 in 10 or 3 out of 10 |  |  | M2A1 |
|  | $3: 10$ |  |  | M2A0 |
|  | $7-5=3+1=4$, answer 40 | lied) |  | M2A0B1ft |


| Q | Answer | Comments |
| :---: | :--- | :---: | :--- | :--- |
|  |  |  |


| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 10(b) | $180-112 \text { or } 68$ <br> or $3 y+y+112=180$ | M1 | oe |  |
|  | their $68 \div(3+1)$ <br> or their $68 \div 4$ or $y=\frac{\text { their } 68}{4}$ or 51 or $x=17$ | M1 | oe their 68 must be $<180$ but not 112 51 or $x=17$ imply M1M1 |  |
|  | 17 | A1 |  |  |
|  | Additional Guidance |  |  |  |
|  | Check diagram for workings and answer |  |  |  |
|  | 17 seen in diagram or working and 51 on answer line |  |  | M1M1A0 |
|  | $180 \div 4$ |  |  | MOMO |
|  | $68 \div 3$ |  |  | M1M0 |
|  | $180-112=78 \text { and } 78 \div 4$ |  |  | M1 M1 MOM1 |
|  | Embedded answer eg $4 \times 17+112=180$ |  |  | M1M1A0 |



| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 11(b) | $7.25 \times 12$ or $725 \times 12$ | M1 | oe eg $7 \times 12+0.25 \times 12$ <br> accept repeated addition of twelve 7(.)25s |  |
|  | Correct vertical method of long multiplication with at least one of 1450 and 7250 correct <br> or <br> Correct set up of grid method with at least three products correct or <br> Correct set up of Gelosia method with at least three products correct or $10 \times 725=7250$ <br> and $2 \times 725=1450$ attempted with at least one correct <br> or <br> $12 \times 700=8400$ and $12 \times 20=240$ and $12 \times 5=60$ attempted with at least one correct | M1dep | oe <br> allow a placeholder space to be present instead of a physical zero in vertical method |  |
|  | 87(.00) | A1 | SC2 103.8(0) or 146.4(0) or 169.2(0) or 190.8(0) or 250.2(0) or 315.6(0) SC1 $8.65 \times 12$ or $12.2(0)$ or $14.1(0) \times 12$ or $15.9(0)$ or $21.35 \times 12$ or 20.85 or $26.3(0) \times 12$ | $56.2(0)$ |
|  | Additional Guidance |  |  |  |
|  | Condone 87.0 |  |  | M2A1 |
|  | Accept answers in pence |  |  |  |
|  | Condone p after their final answer eg £87.00p |  |  |  |
|  | Method of repeated addition must have no more than one error. If broken down into groups, the one error made may be seen multiple times |  |  |  |


| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 12 | $\frac{6}{18}$ <br> or <br> Converts both fractions to an appropriate common denominator with at least one correct numerator | M1 | $\text { eg } \frac{33}{54} \text { and } \frac{18}{54}$ |  |
|  | $\frac{5}{18}$ | A1 | oe fraction eg $\frac{15}{54}$ SC1 $\frac{17}{18}$ (oe fraction) |  |
|  | Additional Guidance |  |  |  |
|  | Ignore incorrect attempt to simplify after correct answer seen |  |  |  |
|  | $\frac{22}{30}$ and $\frac{10}{30}$ not an appropriate denominator |  |  | M0 |


| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 13(a) | $\begin{aligned} & 46 \div 2 \text { or } 23 \\ & \text { or } 4 x=46 \end{aligned}$ | M1 | oe |  |
|  | their $23 \div 2$ <br> or <br> $46 \div 2 \div 2$ or $46 \div 4$ | M1dep | oe may be seen as a fraction eg $\frac{23}{2}$ or $11 \frac{1}{2}$ or $\frac{46}{4}$ or $11 \frac{2}{4}$ |  |
|  | 11.5 | A1 | SC2 5.75 or 11 remainder 1 |  |
|  | Additional Guidance |  |  |  |
|  | $46 \div 2=25,(25 \div 2=)$ |  |  | M1M1A0 |
|  | $46 \div 2=24$, followed by |  |  | M1M0A0 |
|  | 11.5 in working, differe (do not ignore further | nswer |  | M1M1A0 |





| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 16 | At least two points from $(0,1)(1,3)(2,5)$ and $(3,7)$ | M1 | may be seen in a table of values or embedded in calculations may be implied by correct line $\pm \frac{1}{2}$ square tolerance |  |
|  | Correct straight line between $(1,3)$ and $(2,5)$ | A1 | $\pm \frac{1}{2}$ square tolerance |  |
|  | [ $1.15,1.25]$ from using the graph or $1.2$ | B1ft | oe ft $x$-coordinate of any line drawn that intersects the given line $\pm \frac{1}{2}$ square tolerance |  |
|  | Additional Guidance |  |  |  |
|  | Ignore further work after B1 scor |  |  |  |
|  | 1.2 with M0 scored <br> 1.2 with two correct points seen | or inc | line | MOAOB <br> M1A0B1 |
|  | For the A1, ignore incorrect lines and then only allow for the B1ft | ss used | read off for intersection |  |
|  | Answer given as coordinates eg | 3.4) |  | B0 |


| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| $\mathbf{1 7}$ | segment | B1 |  |


| Q | Answer | Mark | Comments |
| :---: | :--- | :--- | :--- |
| $4 \times 10^{5}$ | B1 400000 oe correct answer not in <br> standard form eg $40 \times 10^{4}$ <br> or $8 \times 10^{7}$ or $2 \times 10^{2}$ <br> or $8 \times 10^{5} \div 2$ or $4 \times 10^{7} \div 100$ <br> or any value seen and then correctly <br> converted to standard form <br> eg 4000000 and $4 \times 10^{6}$ <br> 40000 and $4 \times 10^{4}$ |  |  |


| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 19(a) | 243 | B2 | B1 <br> $3^{12-7}$ or $3^{5}$ oe single index <br> or <br> $3 \times 3 \times 3 \times 3 \times 3$ oe multiplication string <br> or <br> 531441 seen as $3^{12}$ or as a numerator <br> or <br> 2187 seen as $3^{7}$ or as a denominator or <br> $3^{n}$ correctly evaluated, where $n$ is an integer $\geqslant 4$ |  |
|  | Additional Guidance |  |  |  |
|  | Condone $3^{5}$ and 243 on the answer line, in either order |  |  | B2 |
|  | $3^{5}$ only on the answer line |  |  | B1 |
|  | Do not allow a misread |  |  |  |
|  | $12-7$ is insufficient for B1 unless $3^{12-7}$ or $3^{5}$ is also seen |  |  |  |
|  | Do not award B1 for a correct evaluation of $3^{n}$ not ascribed to a particular value of $n$ <br> eg a list $3,9,27,81 \ldots$ does not score the mark unless 81 is identified as $3^{4}$ |  |  |  |


| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 19(b) | $2^{13}$ | B2 | B1 $2^{3+6+4}$ <br> or $(8=) 2 \times 2 \times 2 \text { or } 2^{3}$ <br> or $\left(2^{6} \times 2^{4}=\right) 2^{6+4}$ <br> or $\left(2^{6} \times 2^{4}=\right) 2^{10}$ <br> or $2^{9}\left(\times 2^{4}\right)$ <br> or $2^{7}\left(\times 2^{6}\right)$ <br> or $8192$ |  |
|  | Additional Guidance |  |  |  |
|  | 8192 and $2^{13}$ on answer line, in either order |  |  | B2 |
|  | 8192 only on the answer line |  |  | B1 |
|  | Correctly combined powers can be implied eg $8=2^{4}$ with answer $2^{14}$ implies $2^{6} \times 2^{4}=2^{10}$ |  |  | B1 |
|  | Evaluations other than 8192 do not score eg $8 \times 1024$ without seeing $8 \times 2^{10}$ eg $8 \times 64 \times 16$ |  |  |  |
|  | Do not award B1 for 8192 if it is in a list of powers of 2 unless it is indicated or it is the highest power evaluated |  |  |  |
|  | Changing terms to numbers with a base of 8 scores zero unless converted to a number with a base of 2 |  |  |  |



| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| 21 | A | B1 |  |


| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| 22 | Alternative method 1: using different time periods |  |  |
|  | $450 \div 30 \text { or } 15$ <br> or $250 \div 10 \text { or } 25$ | M1 | oe for any section of the basic rate or the overtime rate $\text { eg } \frac{450-150}{30-10}$ |
|  | 15 and 25 | A1 | implied by any ratio equivalent to $3: 5$ do not allow as a ratio in the wrong order eg 25:15 |
|  | $3: 5$ or $\frac{3}{5}: 1$ or $1: \frac{5}{3}$ | B1ft | oe fully simplified <br> ft full simplification of their two values |
|  | Alternative method 2: using equal time periods |  |  |
|  | Four correct readings from equal time periods of at least 5 hours from the two sections of the graph | M1 | eg <br> at 5 and 10 hours and at 35 and 40 hours if a reading from 30 is used, there may only be 3 readings <br> a reading of 0 from 0 may be implied |
|  | $15 \text { and } 25$ <br> or correct totals for their equal time periods | A1 | eg 10 hours $=150$ and 10 hours $=250$ implied by any ratio equivalent to $3: 5$ <br> must not be seen as a ratio in the wrong order eg 250:150 |
|  | $3: 5$ or $\frac{3}{5}: 1$ or $1: \frac{5}{3}$ | B1ft | oe fully simplified <br> ft full simplification of their two values |

## Additional Guidance for this question is on the next page

| $\begin{gathered} 22 \\ \text { cont } \end{gathered}$ | Additional Guidance |  |
| :---: | :---: | :---: |
|  | In alt 2, only three readings are needed if a reading from 30 hours is included in both time periods or a reading of 0 is used eg readings of 300 from 20, 450 from 30 and 700 from 40 | M1 |
|  | Readings from 10, 20, 30 and 40 should be 150, 300, 450 and 700 <br> For readings from other numbers of hours not giving a multiple of $£ 10$ allow the multiple of 10 above or below the reading or any value between, which can then be used to score all three marks <br> eg allow [220, 230] for a reading at 15 hours <br> eg alt 1 readings of 70 at 5 hours, 380 at 25 hours, 450 at 30 hours and 700 at 40 hours, followed by hourly rates of 15.50 and 25 and an answer of $31: 50$ <br> eg alt 2 readings of 370 at 25 hours, 450 at 30 hours, 580 at 35 hours and 700 at 40 hours, followed by totals of 80 and 120 or hourly rates of 16 and 24 and an answer of $2: 3$ | M1A1B1ft <br> M1A1B1ft |
|  | For $1 \frac{2}{3}$ allow 1.67 or better with correct rounding |  |
|  | $450: 250=45: 25$ does not get the mark for 25 , but gets the final mark if simplified to $9: 5$ |  |
|  | Ignore units throughout eg answer £3: £5 | M1A1B1 |
|  | 15:25 | M1A1B0 |
|  | 25:15 or $25: 10$ not simplified | M1A0B0 |
|  | $25: 15$ with answer $5: 3$ or $25: 10$ with answer $5: 2$ | M1A0B1ft |
|  | Answer 5 : 3 without working implies | M1A0B1ft |
|  | 15:17.5 | M1A0B0 |
|  | $15: 17.5$ followed by $6: 7$ | M1A0B1ft |
|  | 20:25 | M1A0B0 |
|  | 20:25 followed by 4 : 5 | M1A0B1ft |
|  | $3: 5$ in working with answer $1.5: 2.5$ | M1A1B0 |
|  | $30: 10=3: 1$ | M0A0B1ft |



| Q | Answer | Mark | Com |  |
| :---: | :---: | :---: | :---: | :---: |
| 23(b) | Two decimals less than 1 with product 0.06 | B1 | eg 0.3 and 0.2 or or 0.5 and 0.12 or either order |  |
|  | Additional Guidance |  |  |  |
|  | Accept negatives eg -0.3 and -0.2 |  |  | B1 |
|  | Condone negative integers eg -6 and -0.01 |  |  | B1 |
|  | 0.06 and 1 |  |  | B0 |
|  | 6 and 0.01 |  |  | B0 |
|  | $\frac{3}{10}$ and $\frac{2}{10}$ |  |  | B0 |



| Q | Answer | Mark | Comments |  |
| :---: | :---: | :---: | :---: | :---: |
| 25 | $20^{2}(\times \pi) \text { or } 400(\times \pi)$ <br> or $15^{2}(\times \pi) \text { or } 225(\times \pi)$ | M1 | oe |  |
|  | $\frac{3}{4} \times 20^{2}(\times \pi)$ or $300(\times \pi)$ or $\frac{1}{3} \times 15^{2}(\times \pi) \text { or } 75(\times \pi)$ | M1dep | oe |  |
|  | $\frac{3}{4} \times 20^{2}(\times \pi)$ or $300(\times \pi)$ and $\frac{1}{3} \times 15^{2}(\times \pi)$ or $75(\times \pi)$ | M1dep |  |  |
|  | $\begin{aligned} & 300(\times \pi) \\ & \text { and } \\ & 75(\times \pi) \end{aligned}$ <br> and <br> 4 | A1 | Accept $P=4 Q$ for 4 <br> SC2 <br> $40(\times \pi)$ and $30(\times \pi)$ <br> and $30(\times \pi)$ and $10(\times \pi)$ and answer 3 |  |
|  | Additional Guidance |  |  |  |
|  | Answer 4 with no working |  |  | MOAO |
|  | Condone inconsistent use of $\pi$ eg $300 \pi$ and 75 and 4 |  |  | M3A1 |
|  | Condone, for example, $\pi 400$ for $400 \pi$ |  |  |  |
|  | Allow use of a numerical value for $\pi$ for method marks and for the A mark with answer 4 |  |  |  |
|  | Ignore units throughout |  |  |  |


| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| 26 | $2 w=\frac{4}{5} \times 15$ or $2 w=\frac{60}{5}$ <br> or $2 w=12$ <br> or $\frac{2 w}{15}=\frac{12}{15}$ <br> or $\frac{w}{3}=\frac{2}{1}$ or $\frac{w}{2}=\frac{3}{1}$ <br> or $\frac{w}{15}=\frac{4}{5} \div 2$ or $\frac{w}{15}=\frac{2}{5}$ <br> or $2 w \times 5=4 \times 15$ or $10 w=60$ <br> or $\frac{4}{5} \div \frac{2}{15}$ | M1 | oe in the form $a w=n$ where $a$ is an integer and $n$ is an integer, fraction or decimal <br> oe in the form $\frac{b w}{x}=\frac{c}{x}$ where $x$ is a common denominator <br> oe calculation |
|  | 6 | A1 |  |
|  | Additional Guidance |  |  |
|  | Embedded answer 6 eg $\frac{2 \times 6}{15}=\frac{4}{5}$ |  | M1A0 |


| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| $\mathbf{2 7}$ | 600 g | B 1 |  |


| Q | Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |
| $\mathbf{2 8}$ | $\frac{18}{5}$ | B1 |  |

