## GCSE

## Mathematics B (Linear)

General Certificate of Secondary Education

## Mark Scheme for June 2012

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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.

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Annotations used in the detailed Mark Scheme.

| Annotation | Meaning |
| :--- | :--- |
| $\checkmark$ | Correct |
| $\mathbf{x}$ | 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 |
| SC | Special case |
| $\wedge$ | Omission sign |

These should be used whenever appropriate during your marking.

The $\mathbf{M}, \mathbf{A}, \mathbf{B}$, etc annotations must be used on your standardisation scripts for responses that are not awarded either 0 or full marks.
It is vital that you annotate these scripts to show how the marks have been awarded.
It is not mandatory to use annotations for any other marking, though you may wish to use them in some circumstances.
M (method) marks are not lost for purely numerical errors.
A (accuracy) marks depend on preceding M (method) marks. Therefore M0 A1 cannot be awarded.
B marks are independent of $\mathbf{M}$ (method) marks and are awarded for a correct final answer or a correct intermediate stage.
Subject Specific Marking Instructions

1. $\quad \mathbf{M}$ 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 M (method) marks. Therefore M0 A1 cannot be awarded.
$B$ 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. Unless the answer and marks columns of the mark scheme specify $\mathbf{M}$ and $\mathbf{A}$ marks etc, or the mark scheme is 'banded', 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, ie incorrect working is seen and the correct answer clearly follows from it.
3. 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.

Figures or expressions that are being followed through are sometimes encompassed by single quotation marks after the word their for clarity, eg FT $180 \times\left(\right.$ their ' 37 ' +16 ), or FT $300-\sqrt{ }\left(\right.$ their ${ }^{\prime} 5^{2}+7^{2 \prime}$ ). Answers to part questions which are being followed through are indicated by eg FT $3 \times$ their (a).

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.
4. Where dependent (dep) marks are indicated in the mark scheme, you must check that the candidate has met all the criteria specified for the mark to be awarded.
5. 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 eg
- $237000,2.37,2.370,0.00237$ would be acceptable but 23070 or 2374 would not.
- isw means ignore subsequent working (after correct answer obtained)
- nfww means not from wrong working
- oe means or equivalent.
rot means rounded or truncated.
- seen means that you should award the mark if that number/expression is seen anywhere in the answer space, including the answer line,
- even if it is not in the method leading to the final answer.
- soi means seen or implied.

6. Make no deductions for wrong work after an acceptable answer unless the mark scheme says otherwise, indicated for example by the instruction 'mark final answer’.
7. As a general principle, if two or more methods are offered, mark only the method that leads to the answer on the answer line. If two (or more) answers are offered, mark the poorer (poorest).
8. 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.
9. 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.
10. If the correct answer is seen in the body and the answer given in the answer space is a clear transcription error allow full marks unless the mark scheme says 'mark final answer' or 'cao'. Place the annotation $\checkmark$ next to the correct answer.

If the answer space is blank but the correct answer is seen in the body allow full marks. Place the annotation $\checkmark$ next to the correct answer.
If the correct answer is seen in the working but a completely different answer is seen in the answer space, then accuracy marks for the answer are lost. Method marks would still be awarded. Use the M0, M1, M2 annotations as appropriate and place the annotation $\times$ next to the wrong answer.
11. Ranges of answers given in the mark scheme are always inclusive.
12. 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.
13. 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.

| Question |  | Answer | Marks | Part Marks and Guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | (a) | 1.1 | 2 | M1 for $-16.4+3.5 \times 5$ or 17.5 seen |  |
|  | (b) | $[t=] \frac{v-u}{5} \text { oe }$ | 2 | M1 for one correct step eg $v-u=5 t$ or $\frac{v}{5}=\frac{u}{5}+t$ oe or as answer: $\frac{v+u}{5}, v-\frac{u}{5}, \frac{u-v}{5}$ $\begin{aligned} & \frac{v}{5}-u, v-u-5, v-u \div 5 \\ & \text { or }(u-v) \div 5 \end{aligned}$ |  |
| 2 | (a) | $2 \times 2 \times 2 \times 3 \times 5 \times 5$ oe | 3 | M2 for 2, 2, 2, 3, 5, 5 or one factor missing or one factor replaced by another prime (ignore 1 in the list) OR <br> M1 for at least one of 2, 3, 5 identified as a factor of 600 nfww | These factors could be on a factor tree or with ' + ' or ',' instead of ' $x$ ' for M2. <br> allow full marks for correct answer seen in working unless contradicted |
|  | (b) | 1620 or 420 | 3 | M2 for 80 <br> OR <br> M1 for any multiple of 80 <br> M1dep for their ' 80 ' added correctly to 1500 to give acceptable time <br> OR <br> M1 for a list of 3 consecutive times with the correct gap (16 or 20) for one train M1 for similar list for other train | 1580 or 380 as answer or 1620 in both lists imply M2 <br> ignore any time embellishments eg am/pm, o'clock, h and min and preceding zeros |


| Question |  | Answer | Marks | Part Marks and Guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 |  | 7.216-7.224 or 7.2 | 4 | B3 for 721600-722400 seen or 14.432-14.448 <br> or $3.608-3.612$ as answer <br> OR <br> B2 for 205.67-205.86 <br> or figs 72[...] <br> OR <br> M1 for $65.5 \times \pi$ oe implied by 206 <br> M1 for <br> (their '65.5 $\times \pi$ ' or 65.5) $\times 3509$ <br> M1 for their '722062' $\div 100000$ soi | Allow full marks for 7 with supporting working <br> Take $\pi$ as $3.14[2]$ or $\frac{22}{7}$ <br> The M's can be done in any order eg $65.5 \times 3509$ or 229839.5 scores M1 |
| 4 | (a) | 2050-2060 | 2 | M1 for $185 \div 0.09$ or $185 \times 100 \div 9$ oe OR <br> SC1 for 2000 from $185 \div 9=20$ |  |
|  | (b) | Salt-what-salt? <br> and <br> 20.5 - 20.6 or 21 (\%) oe <br> 19.2 or 19 (\%) oe <br> 19.6 - 19.7 or 20 (\%) oe <br> Accept any figures that can be compared | 3 | M2 for wrong answer and all decimals/percentages correct rot to at least 2 sf, eg allow: <br> $0.205-0.206$ or 0.21 oe <br> 0.192 or 0.19 oe $0.196-0.197$ or $0.2[0]$ oe or accept division the other way: $4.8-4.9(486 \mathrm{etc})$ <br> 5.2[...](520[.8...] etc) <br> $5.0-5.1$ (508 etc) <br> OR <br> M1 for 2 of these decimals/percentages correct | Accept any correct comparisons including percentages, decimals or fractions over a common denominator <br> Allow an attempt to convert to a 'common amount' eg converting to 1200 so $246.8-246.9$ $230[.4]$ <br> 236 seen for M2 or $\mathbf{3}$ if the answer is correct <br> BOD throughout if one decimal point not seen/unclear |


| Question |  |  | Answer | Marks | Part Marks and Guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | (a) |  | Two points correctly plotted | 1 | Allow $\pm 1 \mathrm{~mm}$ | Use overlay |
|  | (b) |  | Positive | 1 | Allow equivalent statement | Ignore other comments eg 'weak' |
|  | (c) | (i) | Straight line of best fit at least between amount $=20$ and amount $=50$ | 1 | On 'amount' = 20 allow '27-37' and on 'amount' $=50$ allow '52-67' | Use overlay anchor the red line on $(20,27)$ |
|  |  | (ii) | 38-50 | 1 | Otherwise FT their straight line (tolerance $\pm 1)$ |  |
| 6 | (a) |  | 16.878 or 16.88 or 16.9 nfww | 3 | B2 for 18.3 or 18.35 or 18.3[4..] OR <br> B1 for 0.2813 <br> OR <br> M1 for use of distance $\div$ time <br> (the distance is 42.195 (allow MR) and the time could be 2(h) $30(\mathrm{~m}), 2.5,2.3$, 150, 230 or 9000 for example) M1 for time used as 2.5 implied by 0.059 | Accept 17 if supported by correct working |
|  | (b) |  | 1.27 | 2 | M1 for 1.27[18.....] or 1.3 or 1.6175... or $\frac{351}{217}$ oe or 10.53 and 6.51 | Allow -1.27 and $\pm 1.27$ for 2 marks |


| Question |  |  | Answer | Marks | Part Marks and Guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7 | (a) |  | There is no "0" or no "16+" boxes/options | 1 | allow any correct answer | Mark the best comment Do not accept 'other', see appendix for exemplars |
|  | (b) |  | Suitable question and at least four boxes/table covering all possibilities (integers $0-12$ ) with no overlap | 2 | eg "How many hours do you(the athletes) train at the week[end]?"with boxes for $0-3,4-6,7-9$, over 9 <br> B1 for a suitable question with 3 boxes which cover all possibilities (integers 0 12) and have no overlapping numbers OR <br> B1 for a suitable question and at least 4 boxes which have one error, either they do not cover all possibilities up to 12 or they contain at least one overlap OR <br> B1 for no question/unsuitable question with at least four boxes/table covering all possibilities (integers $0-12$ ) and have no overlapping numbers | We accept 12 as a sufficient maximum (can go over 12) <br> The 'boxes' must include 0 and at the end have 'over $t$ ', ' $t+$ ' or go to at least 12 <br> Mark at least the first four boxes and ignore any further boxes if they go over 12 hours <br> Accept $10+$ or 'more than 10' as including 10 or not ( we BOD it) whichever is in the candidate's interest and be generous in accepting inequality signs, 'other' is insufficient but 'more' and 'less' are acceptable at the appropriate end |
|  | (c) | (i) | Strata/classes/groups/age/gender/ section/categories/male/junior seen and <br> The number (sampled) in each strata is proportional to the size of that strata | 2 | B1 for each of the two points <br> It could be a description of the method |  |


| Question |  | Answer | Marks | Part Marks and Guidance |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  | (ii) | 5 |  |  |



| Question |  | Answer | Marks | Part Marks and Guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | (a) | 53 and alternate, accept z-angle | 2 | B1 for 53 or alternate (angle) | Accept alternating and alternative not alternate segment and do not Accept if choice of two given |
|  | (b) | 62 | 2 | M1 for (180-124) $\div 2$ <br> or 28 seen <br> or $(180-56) \div 2$ <br> or $90^{\circ}$ indicated between radius and tangent or used eg 90 - their ' 28 ' or for (180 - their $A P B) \div 2$ | Check diagram for 28 or rightangle symbol or 90 or angle $P$ marked <br> Their $A P B$ must be identified |
| 12 | (a) | 21.6[3...] or 22 nfww | 3 | M2 for $\sqrt{18^{2}+12^{2}}$ <br> OR <br> M1 for $18^{2}+12^{2}$ or $\sqrt{18^{2}-12^{2}}$ | Accept correct alternative methods if they get 21.6[3...] or 22 correctly and then go on to find AG award M2 |
|  | (b) | 49 or 49.1-49.2 | 3 | M2 for $\tan ^{-1}(25 \div$ their (a)) OR <br> M1 for a correct trig statement eg $\tan a=25 \div$ their (a) <br> M1 for any inv trig function soi If $\mathbf{0}$, then $\mathbf{S C 2}$ for $48.6[.$.$] or 48.7$ from use of 22 or $0.85-0.86$ or $54.5-54.6$ from use of radians or grads | Be generous on notation eg accept $\tan ^{-1}=25 \div 21.6$ <br> Accept 21 for their (a) and M2 for 50 after $\tan ^{-1}(25 \div 21)$ <br> Accept correct alternative methods involving sin or cos, the trig statement is from their information |


| Question |  | Answer | Marks | Part Marks and Guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 13 | (a) | $10.5 \text { or } \frac{21}{2} \text { oe }$ | 3 | M1 for $6 x-1=4(x+5)$ or better or for division by 4 eg $11 / 2 x-1 / 4=x+5$ oe <br> M1 for correctly collecting their $x$ 's and their numbers on separate sides, no simplification necessary <br> M1 for $x=\frac{b}{a}$ from their $a x=b(a$ not 1$)$ to a maximum of 2 marks | Note: $\frac{6 x}{4}=x+6$ (or 4 ) followed by $\begin{aligned} & 6 x=4 x+24(\text { or } 16) \\ & 2 x=24(\text { or } 16) \\ & x=12(\text { or } 8) \end{aligned}$ <br> gets 2 marks - they lose 1 mark for one incorrect stage |
|  | (b) | $x^{2}-36$ final answer | 2 | M1 for three correct terms from $\begin{array}{lll} x^{2} & -6 x & (+) 6 x \end{array}-36$ | $x^{2}+12 x-36 \text { or } x^{2}-6^{2} \text { implies M1 }$ the working maybe in a table |
|  | (c) | $(x-8)(x+4)$ $8 \text { (and) }-4$ | $2$ <br> 1 | M1 for either $(x \pm 8)(x \pm 4)$ or for two numbers which add to give ${ }^{-4}$ or multiply to give - 32 <br> FT their factors or correct from the formula | $\text { eg }(x-10)(x+6) \text { scores M1 }$ <br> eg 4 and 9 from $(x-9)(x-4)$ |
|  | (d) | $r=\sqrt{\frac{S}{4 \pi}}$ | 2 | M1 for $r^{2}=\frac{S}{4 \pi}$ oe or $r=\sqrt{f(S)}$ or $\sqrt{\frac{S}{4 \pi}}$ or $r=\frac{\sqrt{S}}{4 \pi}$ oe ignore + or - in front of the root | ```\(f(S)\) should be a function with \(S\), 4 and \(\pi\) eg \(S-4 \pi\) or \(S \times 4 \pi\) or \(\frac{4 \pi}{S}\) \(r=\sqrt{S \div \pi \div 4}\) BOD 2 marks``` |
| 14 |  | 33.6 | 3 | M1 for $21 \div 5$ or 4.2 seen <br> M1 for their '4.2’ $\times 8$ <br> OR <br> SC1 for 34 with no working | accept any correct method eg $(8 \div 5) \times 21$ <br> so M1 for $8 \div 5$ or 1.6 seen and M1 for their ' 1.6 ' $\times 21$ |


| Question |  |  | Answer | Marks | Part Marks and Guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | (a) |  | B C G | 1 | In any order, no extras |  |
|  | (b) |  | $x+y \leq 8 \text { or } y \leq 8-x \text { or } y \leq-1 x+8$ or $x+y<8$ oe as final answer | 2 | SC2 for $x \leq 8$ or $y \leq 8$ or $x<8$ or $y<8$ or $x+y<n$ or $x<n$ or $y<n$ where $n>8$ OR <br> SC1 for $x+y=8$ or $x+y>8$ <br> or $x+y \geq 8$ or $x \geq 0$ or $y \geq 0$ or $x>0$ or $y>0$ or $y<x+8$ oe <br> or $x+y \leq n$ or $x \leq n$ or $y \leq n$ where $n>8$ oe | If you see an expression with more than one inequality award 0 |
| 16 | (a) |  | 56.6[..] or 56.7 or 57 | 3 | M2 for $\frac{47}{30}-1$ or [0].56[6..] or [0]. 57 or [0]. 567 <br> OR <br> B1 for $\frac{47}{30}$ or $1.56[6 \ldots]$ or 1.57 or 1.567 <br> seen <br> OR <br> M1 for $47-30$ or 17 seen <br> M1 for $\frac{\text { their '17' }}{30}$ | For percentage equivalents $156.6[. .$.$] or 157$ or 156.7 score 2 marks |
|  | (b) | (i) | 9.1-9.9 | 2 | M1 for 26 or 16.1-16.9 seen |  |
|  |  | (ii) | Australia are more spread out/greater range/greater IQR or similar median/average | 1 | Allow GB to have a higher median/average <br> Accept any correct comparison e.g. Australia has a higher maximum | Choose best comment if more than one even if one is incorrect See appendix for exemplars |




| Question | Answer | Marks | Answer |
| :---: | :---: | :---: | :---: |
| 20* | The correct answer is obtained (5) with full supportive working that clearly shows an angle (eg 33.46, 86.11 or 60.42 and rot to at least 2 sf ) and the area of the field (22 208[.84..] or rounding/truncating to 22000 ), correctly worked out. Clear annotation and explanation of reasoning. Correct spelling, punctuation and grammar. | 6 | For all marks condone the supplementary angles, eg allow $146.54,93.89$ or 119.58 rot to at least 2 sf |
|  | Full supportive working leading to the number of horses as 5.4 [879...] or $5.4-5.5$ or 6 , shows an angle (eg 33.46, 86.11 or 60.42 and rot to at least 2 sf ) and the area of the field (22 208[.84..] or rounding to 22 000) <br> or <br> 5 as the answer but with some working missing but sufficient to be able to follow the line of argument and at least one of the angle and area clearly stated | 5-4 | One of the angles of the triangle is correctly obtained (eg $33.46,86.11$ or 60.42 and rot to at least 2 sf ) and the formula for the area $(A=) 1 / 2 a b s i n C$ clearly stated and with suitable values substituted in or one of the angles of the triangle is correctly obtained (eg 33.46, 86.11 or 60.42 and rot to at least 2 sf ) and the formula for the area ( $A=$ ) $1 / 2 a b s i n C$ clearly stated but with no suitable values substituted in and their 'area' divided by 4046.856 but not truncating the answer |
|  | One of the angles of the triangle is correctly obtained (eg $33.46,86.11$ or 60.42 and rot to at least 2 sf ) and the formula for the area ( $A=$ ) $1 / 2 a b \sin C$ stated formally or stating both the cosine rule and the formula for the area ( $A=$ ) $1 / 2 a b \sin C$ and then substituting in suitable values or dividing their 'area' by 4046.856 or stating the formula for the area $(A=) \frac{1}{2} a b \sin C$ and then substituting in suitable values and dividing their 'area' by 4046.856 but not truncating their answer | 3-2 | One of the angles of the triangle is correctly obtained (eg $33.46,86.11$ or 60.42 and rot to at least 2 sf ) or stating both the cosine rule and the formula for the area ( $A=)^{1 / 2 a b s i n C}$ or stating the formula for the area ( $A=$ ) $1 / 2 a b \sin C$ and then substituting in suitable values or dividing their 'area' by 4046.856 and truncating the answer correctly |
|  | Stating the cosine rule or the formula for the area ( $A=$ ) $1 / 2 a b s i n C$ or dividing their 'area' by 4046.856 or correct answer of 5 and no working or no relevant working | 1-0 | No worthwhile work attempted or 5 from $4046.856 \div 737$ |

## APPENDIX 1

Exemplar responses for question 7a

| Response | Mark awarded |
| :---: | :---: |
| Might have competed more than 16 times. | 1 |
| It only shows a maximum of 16 | 1 |
| They should start from 0 and go past 16 | 1 |
| There is only enough for 4 people to tick a box, someone may have been in more than 16 competitions | 1 - mark best comment |
| She doesn't have a box saying 'more' | 1 |
| It doesn't have a plus sign at the end because someone might have entered more competitions | 1 |
| There isn't a more or less option | 1 |
| A person might not have entered any competitions | 1 |
| There isn't one saying non | 1 |
| There is no 0 option | 1 |
| There isn't competition every single month | 0 |
| The numbers on the box start going up in 4s then change to 3s | 0 |
| Her survey has got a box for entering more than 16 | 0 |
| There is no 'other' box | 0 |
| Ticking one of the boxes if you for example had done 14 competitions, Jenny would know actually how many had been done | 0 |
| It does have a none box | 0 |
| Needs more variety of options | 0 |
| There are not enough ticky boxes | 0 |
| By using the answers 1-4, 5-8 you don't know if it is 1,2,3,4 so the results are not accurate | 0 |
| It is not telling her the exact amount of competitions entered | 0 |
| The groups are too big the options should be in smaller groups | 0 |
| It is hard to judge how many competitions she has entered | 0 |
| Somebody could have done 4 to 5 competitions, but you can only tick one box | 0 |
| Not telling you what different athletes there is | 0 |
| People might not know... 12 month range too long, should be 6 months | 0 |
| The question is biased | 0 |
| The ranges are too big | 0 |
| The last box 13-16 (it says 12 months) | 0 |
| It does not state what sport the competition is in | 0 |

Exemplar responses for question 16bii

| Response | Mark awarded |
| :--- | :---: |
| Australia are more spread out/greater range/wider spread/greater IQR | $\mathbf{1}$ |
| GB have higher median |  |
| On average GB have won more medals | $\mathbf{1}$ |
| Australia has a lower average .... |  |
| Australia won more medals as there is a larger range |  |
| Australia have a higher increase of medals through the years .... | $\mathbf{1}$ |
| GB mean is higher .. | $\mathbf{1}$ |
| Australia won more medals ..... | $\mathbf{1}$ |

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