## Mathematics B (Linear)

## General Certificate of Secondary Education

## Mark Scheme for March 2013

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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.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

Annotations used in the detailed Mark Scheme.

| Annotation | Meaning |
| :---: | :---: |
| $\checkmark$ | 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 |
| SC | Special case |
| $\square$ | Omission sign |

These should be used whenever appropriate during your marking.
The M, A, 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.

## 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 ' $\left.5^{2}+7^{2 \prime}\right)$. 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 and applies as a default.
- 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. In questions with no final answer line, make no deductions for wrong work after an acceptable answer (ie isw) unless the mark scheme says otherwise, indicated for example by the instruction 'mark final answer'.
7. In questions with a final answer line following working space,
(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. Use the M0, M1, M2 annotations as appropriate and place the annotation $\times$ next to the wrong answer.
8. 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).
9. 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. $\mathbf{M}$ marks are not deducted for misreads.
10. 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.
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) |  | $120 \quad 180$ | 2 | Both correct <br> M1 for $300 \div(2+3)$ or 60 seen or one correct <br> Or SC1 for $180 \quad 120$ |  |
|  | (b) | (i) | 52 80 132 <br> 68 100 168 <br> 120 180 300 | 1 | FT their (a) All four values correct | FT only affects top line of table |
|  |  | (ii) | $\frac{13}{30}$ or $\frac{52}{120}$ oe isw | 2 | FT their table B1 for fraction with correct numerator or denominator seen | Full FT from their values in (b)(i) |
|  |  | (iii) | 11:14 final answer | 2 | M1 for <br> 132 : their ' 168 ' or better Or for answer 14:11 <br> SC1 13: 17 or 4:5 as final answer | $\text { eg } 66 \text { : } 84$ <br> FT their table for M1 only |
| 2 | (a) |  | $F=3.5[0] n+15$ oe final answer | 2 | M1 for 3.5[0]n seen or $k n+15$ seen | Condone units given in formula or eg n3.5, $3.50 \times n$ etc M0 for $F=3.50+15$ Condone any letter other than $F$ in place of $n$ for M1 |
|  | (b) |  | Fresh Clean by £4.5[0] | 3 | M1 for [Cleanup] $25 \times 1.5+10$ soi And <br> M1 for [Fresh Clean] $3.5 \times 8+15$ soi FT their (a) <br> And <br> M1 FT for correct answer to their '47.5' - their ' 43 ' with correct choice of company max 2 marks if answer incorrect | Implied by [£]47.5[0] seen <br> Implied by [ $£ 443$ seen <br> FT their formula in $n$ |
| 3 | (a) |  | $3 a+a^{2}$ final answer | 1 |  | Condone $a \times 3$ and $a 3$ for $3 a\left[\right.$ not $a^{3}$ ] |


| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | (b) | 4(b-3) final answer | 1 | Accept 2(2b-6) as final answer | Condone missing final bracket |
|  | (c) | $\frac{T-5}{4}$ or $\frac{T}{4}-1.25$ oe final answer | 2 | M1 for $T-5=4 p$ oe or $\frac{T}{4}=p+\frac{5}{4}$ oe <br> Or SC1 for answer <br> $T-5 \div 4$ or $\frac{T}{4}-5$ or $\frac{T+5}{4}$ |  |
|  | (d) | $x<5$ final answer | 3 | nfww <br> M1 for collecting $x$ terms or constants on one side $3 x-x-6<4 \text { or } 3 x<x+4+6$ <br> AND <br> M1 dep for collecting constants or $x$ terms on the other side $3 x-x<4+6$ <br> AND <br> M1 for $x<\frac{b}{a}$ after $a x<b$ seen max 2 marks if answer incorrect <br> Or SC2 for answer 5 or $x \ldots 5$ with any incorrect equality or inequality symbol or answer $3 \times 5-6<5+4$ | eg $3 x-x<-2$ implies M1 <br> $3 x-6-4<x$ implies M1 <br> Dependent on first M1 <br> $2 x<10$ implies M2 $a \neq 1, b \neq 0$ <br> Condone use of = or incorrect inequality symbol for < for all method marks |
| 4 | (a) | Linear scale on vertical axis <br> Six heights correct [3, 4, 6, 8, 7, 2] <br> Plots at midpoints and joined with straight lines | 1 <br> 1 <br> 1 | FT their linear scale or implied linear scale if no scale indicated <br> Condone one missing plot | Condone zero not marked, but scale must start from 0 <br> Bar chart scores max 2 for scale and heights <br> If frequency polygon and bar chart shown, mark best Ignore lines joining to origin or first point to last |



| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | (a) | Four equilateral triangles, correct size and position | 2 | M1 for one correctly sized triangle Or for four triangles correctly placed | Use overlay, triangles should be correct by eye Ignore flaps |
|  | (b) | 96-100.8 | 4 | M1 for [height] 5.0-5.4 seen or FT measuring their triangle <br> And M1 for $0.5 \times 6 \times$ their height <br> And $\mathbf{M 1}$ for area of square base $=\mathbf{3 6}$ soi | Answer nfww <br> This mark is for using area of a triangle formula, may be implied by $3 \times$ their height their height is FT triangle drawn in (a), condone 6 for their height <br> May be implied by $6 \times 6=36$ seen but not by $6 \times 6 \times 6=216$ <br> Condone use of Pythagoras with correct surds eg answer $36(1+\sqrt{3})$ oe scores 4 <br> M1 for height $\sqrt{27}$ oe <br> M1 for $0.5 \times 6 \times \sqrt{27}$ |
| 7 | (a) | 77.40 | 3 | M2 for 12.9 seen or figs 774 seen or for attempt at $120 \%$ of 64.50 seen OR <br> M1 for 6.45 seen or figs 129 seen or for attempt at $20 \%$ of 64.50 seen <br> SC2 for answer 77.4 | $\begin{aligned} & \text { eg } 1.2 \times 64.5 \text { or } 64.5+\frac{20}{100} \times 64.5 \\ & \text { eg } 0.2 \times 64.5 \end{aligned}$ |
|  | (b) | 21 | 3 | B2 for figs 121 or (1.1) ${ }^{2}$ oe soi Or B1 for 110[\%] or 1.1 oe soi | May be implied by candidate appropriately increasing their suggested price, eg £20, £22, £24.20 seen implies B2 Or £20, £22 seen implies B1 |


| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | (a) | 30 final answer | 2 | M1 for $360 \div 12$ or 30 seen |  |
|  | (b) | 150 | 1 | Or FT 180 - their '(a)' |  |
| 9 | (a) | $(-5,5.5)$ | 2 | B1 for each value |  |
|  | (b) | $y=-0.5 x+3$ oe | 3 | M2 for [gradient = ] - 0.5 oe soi <br> OR <br> B1 for intercept = 3 soi <br> AND <br> M1 for attempt to find gradient seen | Accept any equivalent three term equation eg implied by $[y=]^{-} 0.5 x[+k]$ seen <br> eg implied by $[y=] a x+3$ seen <br> eg triangle with 5, 10 indicated in correct positions <br> Or incorrect division using $\pm 10$ and $\pm 5$ <br> Or gradient 0.5 or $\pm 2$ soi |
| 10 | (a) | $1 \frac{1}{15}$ final answer | 3 | M1 for $\frac{12}{5}$ or $\frac{9}{4}$ seen or equivalent improper fractions <br> AND <br> M1 for their $\frac{12}{5} \times \times$ their ' $\frac{4}{9}$, <br> AND <br> M1 for their improper fraction correctly converted to mixed number in simplest form <br> max 2 marks if answer incorrect | Answer $1 \frac{3}{45}$ oe implies M2 |
|  | (b) | $\frac{1}{5} \text { or } 0.2$ | 1 |  | Condone $5^{-1}$ |


| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | (c) | $5^{9}$ | 1 |  |  |
| 11 | (a) | 30000 | 1 |  |  |
|  | (b) | 11000 | 2 | ```M1 for 38 [000] or 27 [000] seen or answer 11 or SC1 for answer 10100 or answer 17000``` | [Consistent incorrect reading scale] [IQR of A] |
|  | (c) | On average the salaries in Company B were higher than in Company A The salaries in Company A were more spread out than in Company B | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | For 2 marks at least one comment must refer to context ie salaries <br> Award B1 each for two valid worthwhile comments <br> One comment about average, one about IQR or range <br> BO if just statistics quoted and no explicit comparison | See exemplars <br> Condone 'The ranges are the same' but word range must be used. <br> Ignore irrelevant comments eg relating to number of employees |
| 12 | (a) | A, answer should have 5 zeros | 1 | Not enough zeros | See exemplars <br> There must be more than just a calculation seen |
|  | (b) | D, answer should be greater [than 5684] | 1 |  | See exemplars <br> Assume their use of 'number' refers to 5684 |
|  | (c) | F, power [of 10 in answer] should be 6 | 1 | Or 'subtract powers' | See exemplars |
| 13 | (a) | $58^{\circ}$ | 1 |  |  |
|  | (b) | $122^{\circ}$ | 1 | Or FT 180 - their '58’ |  |
|  | (c) | $29^{\circ}$ | 2 | ```M1 for reflex angle BOD = 360-116 [= 244] Or ABD = 61 or OBD = 32 Or their'58' } 2 2 so``` | For method marks the value must be linked with the correct angle, not just the number seen |


| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | (a) | $\begin{aligned} & 12 x+4 y=10 \text { or } 30 x+10 y=25 \\ & 12 x-15 y=48 \text { or } 8 x-10 y=32 \\ & 19 y=-38 \quad \text { or } 38 x=57 \\ & x=1.5 \text { oe } \\ & y=-2 \end{aligned}$ | M1 <br> M1 <br> M1 <br> A1 | First step to equate coefficients eg by multiplying first equation 2 or 5 <br> Reaches equal coefficients eg by multiplying second equation by 3 or 2 <br> Correctly subtracting/adding to eliminate one unknown <br> OR SC2 for correct solution without algebraic working | Allow other multiples, even fractional, eg M2 for $6 x-7.5 y=24$ <br> Condone one error in each step for all M marks <br> Mark best attempt <br> Substitution method: <br> M1 for rearranging one equation to make $x$ or $y$ the subject <br> M1 for correct substitution into the other equation <br> M1 for rearranging their equation to $a x=b$ <br> Condone one error in each step |
|  | (b) | $\frac{2}{3} \mathbf{o e},-\frac{5}{2} \text { oe }$ | 3 | M2 for $(3 x-2)(2 x+5)$ seen or implied in table <br> OR <br> M1 for $(3 x \pm 2)(2 x \pm 5)$ seen or pair of factors giving two correct terms seen or implied in table <br> AND <br> B1 for correct solutions FT their quadratic factors | Accept eg 0.66..., -2.5 etc as equivalents, isw for incorrect conversion of fraction to decimal $\text { eg }(6 x-1)(x+10)$ |
| 15 | (a) | 12.5 oe | 3 | M2 for $10 \times \frac{15}{12}$ oe Or M1 for $\frac{15}{12}$ or $\frac{10}{12}$ soi Or SC2 for answer 18 | eg 1.25 or $4: 5$ or $\frac{12}{15}$ seen |


| Question |  | Answer | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | (b) | $\angle A C B=\angle C A D$, alternate angles $\angle A B C=\angle A C D=80^{\circ},$ <br> angles in triangle ACD $\angle B A C=\angle C D A=70^{\circ}$ <br> angles in triangle $A B C$ | 3 | B1 for two from $\angle A C B=30^{\circ}, \angle A C D=80^{\circ}$ and $\angle B A C=70^{\circ}$ soi and <br> B1 for at least two correct pairs of angles stated (eg $\angle A C B=\angle C A D)$ <br> or for explicit statement that the angles in both triangles are 30, 80 and 70 and <br> B1 for valid reasons for at least two angles stated <br> max 2 marks if any incorrect reasons seen | Angles may be seen marked on diagram <br> Accept any valid alternative reasons |
| 16 | (a) | $\binom{1}{3}$ | 1 |  | Condone fraction lines in vectors throughout |
|  | (b) | $\binom{15}{-11}$ | 2 | M1 for one correct component or for $\binom{12}{-6}$ seen | Condone missing brackets |
| 17 | (a) | Parabola through origin, inside given parabola | 1 |  | Clear intention <br> Mark best attempt [other curve may be working for (b)] |
|  | (b) | $\begin{aligned} & \text { Translation } \\ & {\left[\begin{array}{r} 0 \\ -3 \end{array}\right]} \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | Condone 3 down | Accept translate, not move etc Not ( $0,-3$ ) |




## APPENDIX

Exemplar responses for Q11(c)

| Response | Mark |
| :---: | :---: |
| Company B has a smaller IQR than A making its results more consistent Company B has a higher median of $£ 33000$ rather than A with $£ 30000$ | 1 <br> 1 [use of $£$ counts as context] |
| The range of salaries is the same for company $A$ and $B$ The average salary is larger for company B | 1 <br> 1 [salary sufficient context] |
| The range of results is the same Company B's median is higher so most of their salaries are higher than at company A's | $\begin{aligned} & 1 \text { [condone results] } \\ & 1 \end{aligned}$ |
| Company B has a higher median salary at $£ 33000$ than company A at $£ 30000$ Company A has a high interquartile range at $£ 17000$ than company B at $£ 11000$ | 1 [bod high not higher] |
| Company $B$ has a better average interquartile range Company A has a lower salary average | $\begin{aligned} & \text { ['better' not sufficient] } \\ & \mathbf{1} \end{aligned}$ |
| Company B has a larger median than company A Company $A$ lower quartile range is smaller than $B$ | 1 [for first mark no context needed] <br> $\mathbf{0}$ [must compare IQR and neither in context] |
| Company $B$ had a smaller interquartile range so therefore a higher salary The lower and upper boundaries are the same | 1 [ignore end of sentence] <br> $\mathbf{0}$ [no 'range' also spread again] |
| They have the same lower and higher range $£ 43000$ is the range of salaries at both companies | 0 [unclear] <br> 1 [range again: this one acceptable] |
| The interquartile range for company A is higher than that of company B Company $B$ has a higher mean salary | ${ }^{1} \mathbf{0}$ [mean not known] |
| Company B is more consistent with the amounts of salary Company A have a more unreliable salary but they both have the same amount of low salary and higher salary | $\begin{aligned} & 1 \\ & \mathbf{0} \text { [also spread] } \end{aligned}$ |
| Company A on average makes less than company B One person in each company gets 10000 and one person in each gets 58000 - same range | 0 [unacceptable, not about salaries] <br> 1 [for same range] |
| $B$ has a higher average Company As salaries stretches longer or is paid out in a longer amount of time compared to company B | $\begin{aligned} & 1 \\ & 0 \text { [unclear] } \end{aligned}$ |
| Company A had smaller salaries There is a bigger range in company A of salaries | $\begin{aligned} & 0 \text { [no 'on average'] } \\ & 0 \end{aligned}$ |
| Company B workers have a higher salary than company A Company A has a wider range of results | 0 [no 'on average'] <br> 0 [ranges same] |
| Company A has a lower quartile range Company $B$ has a higher upper quartile range | $0$ |

Exemplar responses for Q12(a)

| Response | Mark |
| :---: | :---: |
| A, should be 100 times bigger | 1 |
| A, meant to have two more zeros | 1 |
| A, they have timesed 4000 by 3 instead of 3 hundred | 1 |
| A, $3 \times 4000=12000$ so the answer is too small | 1 |
| A Because e.g $3 \times 4000=12000$ | 0 [needs further explanation] |
| A, the answer should have the same number of 0 s in it as the question | 1 [just -correct for this question] |
| A because doesn't have enough zeroes | 1 |
| A because there are more zeroes on the left side | 1 [just] |
| A, because when you times hundreds by thousands you get hundred thousands | 1 |
| A because when timesing by tens, hundreds and thousands you always put all the zeroes at the end | 0 [unclear] |
| A, $4000 \times 300$ is too high to be 12000 | 0 [unclear] |
| A, if you were to multiply by 300 it would be 300 times bigger | 0 |
| A, there is less 0s | 0 [too vague] |
| A because there are seven digits in the initial numbers and only 5 in the answer | 0 [digits not zeros] |
| A, the zeros don't add up | 0 [too vague] |
| A, $300 \times 4000=1200000$ | 0 [worked out correct answer] |
| A because the answer is too small | 0 [needs more] |

Exemplar responses for Q12(b)

| Response | Mark |
| :--- | :--- |
| D because dividing less than 1 makes the number bigger | $\mathbf{1}$ |
| D, if you divide by a decimal it get bigger | $\mathbf{1}$ [bod] |
| D because too low an answer | $\mathbf{1}$ |
| D, you would expect the number to be bigger | $\mathbf{1}$ [bod] |
| D, 5684 should increase not decrease | $\mathbf{1}$ |
| D, the number in the question is higher than the number in the answer | $\mathbf{1}$ |
| D, the number has decreased | $\mathbf{1}$ ['number' <br> means $5684, ~ j u s t ~$ <br> sufficient] |
| D because it is too high | $\mathbf{0}$ |
| D, $5684 \div 1=5684$ | $\mathbf{0}$ |
| D because multiplying by 0.96 the answer would be closer to 5684 | $\mathbf{0}$ |

Exemplar responses for Q12(c)

| Response | Mark |
| :--- | :--- |
| F, the powers haven't been subtracted correctly | $\mathbf{1}$ |
| F, when you divide powers, you minus | $\mathbf{1}$ |
| F, $10^{8} \div 10^{2}$ should be higher than $10^{4}$ as you have to subtract | $\mathbf{1}$ |
| F because the powers of ten have been divided and not subtracted | $\mathbf{1}$ |
| F because when you divide powers you take one from the other | $\mathbf{1}$ |
| F because the power to 10 is dividing not subtracting | $\mathbf{1}$ |
| F because $8-2$ is not 4 | $\mathbf{1}$ |
| F because they have taken off too many powers | $\mathbf{1}$ [bod] |
| F, $10^{8} \div 10^{2}$ doesn't equal $10^{4}$ | $\mathbf{1}$ [just] |
| F, the power has been divided like a number which is incorrect | $\mathbf{0}$ [too vague] |
| F because the powers are wrong | $\mathbf{0}$ [too vague] |
| F because the indices do not add up | $\mathbf{0}$ |

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