

# Mark Scheme (Results)

November 2012

GCSE Mathematics Linked Pair Pilot  
Application of Mathematics (2AM01)  
Foundation (Calculator) Paper 1F

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## NOTES ON MARKING PRINCIPLES

- 1 All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- 2 Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- 3 All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- 4 Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- 5 Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.
- 6 Mark schemes will indicate within the table where, and which strands of QWC, are being assessed. The strands are as follows:
  - i) *ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear*  
Comprehension and meaning is clear by using correct notation and labeling conventions.
  - ii) *select and use a form and style of writing appropriate to purpose and to complex subject matter*  
Reasoning, explanation or argument is correct and appropriately structured to convey mathematical reasoning.
  - iii) *organise information clearly and coherently, using specialist vocabulary when appropriate.*  
The mathematical methods and processes used are coherently and clearly organised and the appropriate mathematical vocabulary used.

**7 With working**

If there is a wrong answer indicated on the answer line always check the working in the body of the script (and on any diagrams), and award any marks appropriate from the mark scheme.

If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.

If it is clear from the working that the "correct" answer has been obtained from incorrect working, award 0 marks. Send the response to review, and discuss each of these situations with your Team Leader.

If there is no answer on the answer line then check the working for an obvious answer.

Any case of suspected misread loses A (and B) marks on that part, but can gain the M marks. Discuss each of these situations with your Team Leader.

If there is a choice of methods shown, then no marks should be awarded, unless the answer on the answer line makes clear the method that has been used.

**8 Follow through marks**

Follow through marks which involve a single stage calculation can be awarded without working since you can check the answer yourself, but if ambiguous do not award.

Follow through marks which involve more than one stage of calculation can only be awarded on sight of the relevant working, even if it appears obvious that there is only one way you could get the answer given.

**9 Ignoring subsequent work**

It is appropriate to ignore subsequent work when the additional work does not change the answer in a way that is inappropriate for the question: e.g. incorrect canceling of a fraction that would otherwise be correct

It is not appropriate to ignore subsequent work when the additional work essentially makes the answer incorrect e.g. algebra.

Transcription errors occur when candidates present a correct answer in working, and write it incorrectly on the answer line; mark the correct answer.

**10 Probability**

Probability answers must be given as fractions, percentages or decimals. If a candidate gives a decimal equivalent to a probability, this should be written to at least 2 decimal places (unless tenths).

Incorrect notation should lose the accuracy marks, but be awarded any implied method marks.

If a probability answer is given on the answer line using both incorrect and correct notation, award the marks.

If a probability fraction is given then cancelled incorrectly, ignore the incorrectly cancelled answer.

### **Linear equations**

Full marks can be gained if the solution alone is given on the answer line, or otherwise unambiguously indicated in working (without contradiction elsewhere). Where the correct solution only is shown substituted, but not identified as the solution, the accuracy mark is lost but any method marks can be awarded.

### **12 Parts of questions**

Unless allowed by the mark scheme, the marks allocated to one part of the question CANNOT be awarded in another.

### **13 Range of answers**

Unless otherwise stated, when an answer is given as a range (e.g 3.5 – 4.2) then this is inclusive of the end points (e.g 3.5, 4.2) and includes all numbers within the range (e.g 4, 4.1)

#### **Guidance on the use of codes within this mark scheme**

M1 – method mark

A1 – accuracy mark

B1 – Working mark

C1 – communication mark

QWC – quality of written communication

oe – or equivalent

cao – correct answer only

ft – follow through

sc – special case

dep – dependent (on a previous mark or conclusion)

indep – independent

isw – ignore subsequent working

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Question		Working	Answer	Mark	Notes
1	(a)		7000	1	B1 for 7000 accept 7 thousand
	(b)		3500	1	B1 for 3500 accept 35 hundred or 3 thousand 500 oe
	(c)		65	1	B1 for 65
2	(a)		4 profit 3.50 25 15	4	B1 cao B1 cao B1 cao B1 cao
	(b)	$2.50 + 4 + 1.50 + 20 = 28$ $28 - 5 =$  <b>OR</b> $5 + 8 + 2 + 25 + 15 = 55$ $7.50 + 12 + 3.50 + 20 + 35 = 78$ $78 - 55 =$	23	3	M1 ft for attempt to add all profits M1 ft for attempt to subtract losses A1 cao <b>OR</b> M1 ft for attempt to sum all the cost and sale prices M1 ft for attempt to subtract cost and sale prices A1 cao
3	(a)	Dog <del>lll</del> lll 8 Cat <del>lll</del> ll 7 Rabbit ll 2 Hamster lll 3	Correct frequencies	2	B2 for all frequencies correct (B1 for 2 tallies or 2 frequencies correct)
	(b)		Correct bars	2	B2 ft for all bar heights correct with or without gaps (B1 ft for 2 bar heights correct)
	(c)		Dog	1	B1 ft

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Question		Working	Answer	Mark	Notes
4			correct lines drawn	3	B1 for vertical line of symmetry on Big Ben B1 for no line of symmetry on Houses of Parliament B1 for 4 lines of symmetry on Millennium Arch
5	(a)		3 feet	2	B1 for feet or ft or inches or in B1 (dep) for 3, accept answer in range 2.8 – 3.2, with feet or 36, accept answer in range 35 – 37, with inches
	(b)		2 litres	2	B1 for litres or <i>l</i> or millilitres or <i>ml</i> B1 (dep) for 2, accept answer in range 1.8 – 2.2, with litres or 2000, accept answer in range 1800 – 2200, with millilitres
6	(a)		18	1	B1 cao
	(b)		-6	1	B1 cao
	(c)	18 - -6 = -6 - 18 Counting on or counting back	24	1	B1 for 24 or -24 or ft from (a) and (b) provided (b) negative
	(d)	(18 + -6) ÷ 2 = or (a) - (c) ÷ 2 or (b) + (c) ÷ 2	6	2	M1 ft for '18' - '24' ÷ 2 or '-6' + '24' ÷ 2 or ('18' + '-6') ÷ 2 A1 cao

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Question		Working	Answer	Mark	Notes									
7	(a)		A, C, E	2	B2 for all 3 correct (-1 each error or omission) (B1 for one correct and no incorrect)									
	(b)		<table border="1"> <tr> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> </tr> <tr> <td>2</td> <td></td> <td>8</td> <td></td> <td>2</td> </tr> </table>	A	B	C	D	E	2		8		2	2
A	B	C	D	E										
2		8		2										
8	(a)		March & April	1	B1 cao									
	(b)		Lilac & Potentilla	1	B1 cao									
	(c)		March	1	B1 cao									
	(d)		Daphne	1	B1 cao									
9			Correct arrows drawn	3	B3 for 4 correct arrows B2 for 2 correct arrows B1 for 1 correct answer NB arrows may go to scalene from each triangle and all equilateral triangles are isosceles									

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Question	Working	Answer	Mark	Notes	
*10		Appropriate correct graph drawn	4	C1 for key or suitable labels to identify Dave and Joan C1 for days of the week labelled M1 for diagram or chart (combined or separate) set up for comparison, e.g. dual bar chart, back to back bar charts or stem and leaf diagram, vertical stick graphs, pie charts etc. A1 for fully correct diagram(s) or chart(s) to include time 'axis' correctly scaled and labelled	
11	(a)	$5 - (0.75 + 0.85)$ $5 - 1.60$	3.40	3	M1 for adding $75 + 85$ or $160$ or $0.75 + 0.85$ or $1.60$ M1 for $5 - 1.60$ or $500 - 160$ or $5 - 0.75 - 0.85$ or $500 - 75 - 85$ A1 for 3.40 cao  (SC B1 for answer of 2.25 if M0 scored)
	*(b)	Single burger meal deal £1.90 Chicken (3) meal deal £1.95  Single burger, fries & milk £2.10 Chicken pieces (3), fries & milk £2.15 Single burger meal deal with large fries £2.10 Chicken (3) meal deal with large fries £2.15	Correct combinations	5	M1 for attempt to find total for drink, fries and either burger or chicken pieces with prices seen C1 for a correct total for drink, fries and either burger or chicken pieces B1 for identifying single burger meal deal and chicken (3) meal deal C2 for all 4 combinations with a total of 2.15 or less (C1 for 2 combinations with a total of 2.15 or less)

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Question		Working	Answer	Mark	Notes
12	(a)	$2x + 3x + 4x = 180^\circ$ $9x = 180$ $x = 180 \div 9$	20	3	M1 for $3x + 4x + 2x$ or $9x$ M1 for $180 \div 9$ or for 60, 80 and 40 A1 for 20 cao
	(b)	$2y + 20 + y + 16 + 90 = 180$ $3y + 36 = 90$ $3y = 54$ $y = 54 \div 3 = 18$ $18 + 16 =$	34	3	M1 for attempt to form an equation in $y$ with sight of $2y + 20$ , $y + 16$ , 90 and 180 or with sight of $2y + 20$ , $y + 16$ and 90 M1 for attempt to isolate $y$ in equation or sight of $y = 18$ A1 for 34 cao
13	(a)	$375 \times 9.02$	3382.50	2	M1 for $375 \times 9.02$ A1 for 3382.5(0)  (SC B1 for answer of 3382 or 3383 if M0 scored)
	(b)	$675 \div 9.02 = 74.83$ $\pounds 75 - 74.83$  <b>OR</b> $75 \times 9.02 = 676.50$ $676.50 - 675 = 1.50$ $1.50 \div 9.02 = 0.166\dots$	$\pounds 0.17$ or 17p or 1.50 Kr	3	M1 for $675 \div 9.02 (= 74.83\dots)$ M1(dep) for $75 - '74.83'$ A1 for $\pounds 0.17$ or 17p  <b>OR</b> M1 for $75 \times 9.02 (= 676.5)$ M1(dep) for $'676.5' - 675$ A1 for 1.5(0) Kr  <b>OR</b> M1 for $75 \times 9.02 (= 676.5)$ M1(dep) for $'676.5' - 675 = 1.5$ and $'1.5' \div 9.02$ A1 for $\pounds 0.17$ or 17p

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Question	Working	Answer	Mark	Notes
14	$S - C = 15$ $D = 15/50 = 0.3$ $T = 0.3 \times 100$	$P = 15$ $D = 0.3$ $T = 30$	3	B1 for 15 B1 for 0.3 or $\frac{15}{50}$ oe or ft from '15' B1 for 30 or ft from '0.3'
15	$x + x + 5 + x + x + 5 = 58$ $4x + 10 = 58$ $4x = 48$ $x = 12$ so L = 17 w = 12 Area = $17 \times 12$  <b>OR</b> $2(x + x + 5) = 58$ $4x + 10 = 58$ $4x = 48$ $x = 12$ so L = 17 width = 12 Area = $17 \times 12$  <b>OR</b> Trial and Improvement method to find width and length with sight of 12 and/ or 17 Area = $12 \times 17$	204	4	M1 for attempt to set up the equation $x + x + 5 + x + x + 5 = 58$ or $4x + 10 = 58$ M1 for attempt to isolate terms in $x$ and number terms or for dividing by coefficient of $x$ M1 for multiplying their length and width A1 for 204  <b>OR</b> M1 for attempt to set up the equation $2(x + x + 5) = 58$ M1 for attempt to isolate terms in $x$ and number terms or for dividing by coefficient of $x$ M1 for multiplying their length and width A1 for 204  <b>OR</b> Trial and improvement scores 2 marks for sight of 12 and or 17 M1 for $12 \times 17$ A1 for 204

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Question	Working	Answer	Mark	Notes
*16	<p><b>Cwts to lbs</b>  <math>7.5 \times 112 = 840</math> lbs</p> <p><b>Kg to lbs</b>  <math>400 \times 2.2 = 880</math> lbs</p> <p><b>Cwts to Kg</b>  <math>7.5 \times 112 \div 2.2 = 381.81</math></p> <p><b>lbs to Kg</b>  <math>830 \div 2.2 = 377.2727\dots</math></p> <p><b>Lbs to cwts</b>  <math>830 \div 112 = 7.4107\dots</math></p> <p><b>Kg to cwts</b>  <math>400 \times 2.2 \div 112 = 7.857</math></p>	Correct comparison	4	<p><b>Cwts and Kg to lbs</b>  M1 for <math>7.5 \times 112</math> or <math>400 \times 2.2</math>  M1 for <math>7.5 \times 112</math> and <math>400 \times 2.2</math>  A1 for <math>7\frac{1}{2}</math> cwts = 840 (lbs) and <math>400</math> kg = 880 (lbs)  C1 (dep on at least M1) for conclusion ft from working seen</p> <p><b>Cwts and lbs to Kg</b>  M1 for <math>7.5 \times 112 \div 2.2</math> or <math>830 \div 2.2</math>  M1 for <math>7.5 \times 112 \div 2.2</math> and <math>830 \div 2.2</math>  A1 for <math>7\frac{1}{2}</math> cwts = 381.8(18..)(kg) and <math>830</math> lbs = 377.2(72..)(kg)  C1 (dep on at least M1) for conclusion ft from working seen</p> <p><b>Lbs and Kg to cwts</b>  M1 for <math>830 \div 112</math> or <math>400 \times 2.2 \div 112</math>  M1 for <math>830 \div 112</math> and <math>400 \times 2.2 \div 112</math>  A1 for <math>830</math> lbs = 7.4(107..)(cwt) and <math>400</math> kg = 7.8(571..)(cwt)  C1 (dep on at least M1) for conclusion ft from working seen</p>

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Question	Working	Answer	Mark	Notes
17	(a)	35	1	B1 cao
	(b)(i)	$30 \div 150$	3	M1 for right angled triangle drawn or diff $y \div \text{diff } x$ A1 for 0.2 oe, eg $\frac{30}{150}$
	(ii)	20p		B1 for 20p or £0.20 or ft their (b)(i)
	* (c)	Gas&Air with comparisons	4	M1 for attempt to calculate 75 units and 100 units for at least one company A1 for (Seagas =) 35 and 40 OR (Sandygas =) 37.5(0) and 50 OR (Gas&Air =) 35 and 37.5(0) oe A1 for (Seagas =) 35 and 40 AND (Sandygas =) 37.5(0) and 50 AND (Gas&Air =) 35 and 37.5(0) oe C1 (dep on M1) for Gas&Air or ft their calculations  <b>OR</b> M1 for attempt to calculate 75 units or 100 units for at least two companies A1 for two of (75 units) 35, 35, 37.5(0) or for two of (100 units) 37.5(0), 40, 50 A1 for all of (Seagas =) 35 and 40, (Sandygas =) 37.5(0) and 50, (Gas&Air =) 35 and 37.5(0) oe C1 (dep on M1) for Gas&Air or ft their calculations  <b>OR</b> M1 for straight line drawn through (0, 0) or (75, 37.5) or for line with gradient 0.5 OR for straight line drawn through (75, 35) or (100, 37.5) or for line with gradient 0.1 A1 for straight line through (75, 37.5) and (100, 50) A1 for straight line through (75, 35) and (100, 37.5) C1 (dep on M1) for Gas&Air or ft 'straight lines' for Sandygas and Gas&Air [NB tolerance $\pm 2\text{mm square}$ ]
		<u>75 units</u> Gas&Air = £35 Seagas = £35 Sandygas = £37.50		
		<u>100 units</u> Gas&Air = £37.50 Seagas = £40 Sandygas = £50		
		<b>OR</b> <u>Gas&amp;Air</u> (75) = £35 (100) = £37.50		
		<u>Seagas</u> (75) = £35 (100) = £40		
		<u>Sandygas</u> (75) = £37.50 (100) = £50		

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18	<p data-bbox="427 336 667 363"><b>Initial information</b></p> <table border="1" data-bbox="432 400 875 579"> <thead> <tr> <th></th> <th>Bags</th> <th>Pkt</th> <th>Inst</th> <th>Tot</th> </tr> </thead> <tbody> <tr> <td>50</td> <td><b>5</b></td> <td><b>0</b></td> <td><b>2</b></td> <td></td> </tr> <tr> <td>100</td> <td><b>37</b></td> <td><b>10</b></td> <td></td> <td></td> </tr> <tr> <td>200</td> <td></td> <td><b>7</b></td> <td></td> <td><b>40</b></td> </tr> <tr> <td>Tot</td> <td><b>70</b></td> <td></td> <td></td> <td><b>100</b></td> </tr> </tbody> </table> <p data-bbox="427 651 591 678"><b>Calculations</b></p> <table border="1" data-bbox="432 699 875 877"> <thead> <tr> <th></th> <th>Bags</th> <th>Pkt</th> <th>Inst</th> <th>Tot</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>5</td> <td>0</td> <td>2</td> <td><b>7</b></td> </tr> <tr> <td>100</td> <td>37</td> <td>10</td> <td><b>6</b></td> <td><b>53</b></td> </tr> <tr> <td>200</td> <td><b>28</b></td> <td>7</td> <td><b>5</b></td> <td>40</td> </tr> <tr> <td>Tot</td> <td>70</td> <td><b>17</b></td> <td><b>13</b></td> <td>100</td> </tr> </tbody> </table>		Bags	Pkt	Inst	Tot	50	<b>5</b>	<b>0</b>	<b>2</b>		100	<b>37</b>	<b>10</b>			200		<b>7</b>		<b>40</b>	Tot	<b>70</b>			<b>100</b>		Bags	Pkt	Inst	Tot	50	5	0	2	<b>7</b>	100	37	10	<b>6</b>	<b>53</b>	200	<b>28</b>	7	<b>5</b>	40	Tot	70	<b>17</b>	<b>13</b>	100	Table completed correctly	5	<p data-bbox="1290 336 1529 363"><b>Initial information</b></p> <p data-bbox="1290 371 1883 435">B2 for all 8 pieces of information correctly placed (B1 for 3 pieces of information correctly placed)</p> <p data-bbox="1290 475 1453 502"><b>Calculations</b></p> <p data-bbox="1290 510 1653 604">B3 for all 7 items correct (B2 for 4, 5 or 6 items correct) (B1 for 2 or 3 items correct)</p>
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Question	Working	Answer	Mark	Notes
*19	$\text{Angle } ACB = 67^\circ$ $x = 180 - (67 + 67)$	$46^\circ$ with reasons	4	B1 for angle $ACB = 67^\circ$ , could be marked on the diagram M1 for $180 - ('67' + '67')$ A1 for $x = 46^\circ$ C1 for vertically <u>opposite angles</u> (or <u>vertically opposite angles</u> ) <b>and</b> base <u>angles</u> of an <u>isosceles</u> triangle are <u>equal</u>  <b>OR</b>  B1 for angle $ACB = 67^\circ$ , could be marked on the diagram M1 for $180 - ('67' + '67')$ A1 for $x = 46^\circ$ C1 for “ <u>angles</u> on a <u>straight line</u> add up to <u>180°</u> <b>and</b> base <u>angles</u> of an <u>isosceles</u> triangle are <u>equal</u>
20	(a)	$= 2*A2 + 2*B2$ $= C2/2$	4	B1 for doubling the length and the width either singly or together e.g. $2*(x + y)$ or $2*x$ and $2*w$ or $2*(A2+B2)$ or $2*A2$ or $2*B2$ or $2*SUM(A2:B2)$ B1 for adding the lengths either before or after doubling, e.g. $A2 + B2$ B1 for attempt to divide their spreadsheet formula by 2 or their cell C by 2, eg $C2/2$ B1 (dep on two formulas) for correct spreadsheet formula notation (condone missing =)
	(b)	8	1	B1 for 8 or ft their formulas

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Question		Working	Answer	Mark	Notes
21	(a)	$(79 + 39) \times 1.2$ $118 \times 1.2$  <b>OR</b> $79 \times 1.2 + 39 \times 1.2$ $94.80 + 46.80$  <b>OR</b> $\frac{20}{100} \times (79 + 39) = 23.60$  $118 + 23.60$  <b>OR</b> $\frac{20}{100} \times 79 = 15.80$ $\frac{20}{100} \times 39 = 7.80$ $15.80 + 7.80 + 118$	141.60	3	M1 for $79 \times 1.2$ or $39 \times 1.2$ oe M1 for $79 \times 1.2 + 39 \times 1.2$ oe A1 for 141.6(0)  <b>OR</b> M1 for $\frac{20}{100} \times 79 (= 15.8)$ and $\frac{20}{100} \times 39 (= 7.8)$ M1 for $\frac{20}{100} \times 79 + 79 + \frac{20}{100} \times 39 + 39$ A1 for 141.6(0)  <b>OR</b> M1 for $\frac{20}{100} \times (79 + 39) (= 23.6)$ oe M1 for $\frac{20}{100} \times (79 + 39) + 79 + 39$ oe A1 for 141.6(0)
	(b)	$20\,000 \times 0.8 = 16\,000$ $16\,000 \times 0.9 = 14\,400$  <b>OR</b> $\frac{20}{100} \times 20\,000 = 4000$ $20\,000 - 4000 = 16\,000$ $10\% \times 16\,000 = 1600$ $16\,000 - 1600 =$	14 400	3	M1 for $20\,000 \times 0.8$ oe or 16 000 seen M1 for '16 000' $\times 0.9$ oe A1 for 14 400  <b>OR</b> M1 for $20\,000 - 0.2 \times 20\,000$ oe or 16 000 seen M1 for '16 000' $- 0.1 \times '16\,000'$ oe A1 for 14 400



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