



Mark Scheme (Results)

Summer 2013

GCSE Mathematics (Linear) 1MA0  
Foundation (Calculator) Paper 2F

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Summer 2013

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If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

**11 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

PAPER: 1MA0_2F					
Question		Working	Answer	Mark	Notes
1	(a)		2085	1	B1 for 2085 or 2,085
	(b)		five thousand, one hundred and eight	1	B1 for five thousand, one hundred (and) eight
	(c)		9 tenths		B1 for 9 tenths oe, eg $\frac{9}{10}$ or $\frac{90}{100}$
	(d)		160	1	B1 cao
2			inches grams litres	3	B1 for inch(es) or ins B1 for gram(s) or g B1 for litre(s) or <i>l</i> or millilitre(s) or <i>ml</i> (accept centilitres or cc or <i>cl</i> or $\text{cm}^3$ )
3	(a)(i)		right angle marked	1	B1 for a clear intention to mark bottom left hand angle with R (accept r) or right-angle marked
	(ii)		acute	1	B1 for acute
	(iii)		reflex	1	B1 for reflex
	(b)		perpendicular line from <i>T</i> to <i>AB</i>	1	B1 for perpendicular line from <i>T</i> to <i>AB</i> (within guidelines of overlay)
4	(a)		$5m$	1	B1 for $5m$ or $5 \times m$ or $m \times 5$ or $m5$
	(b)		$9p$	1	B1 for $9p$ or $p9$
	(c)		$4tw$	1	B1 for $4tw$ or $4wt$ or $tw4$ or $wt4$ (condone $4 \times tw$ and $4 \times wt$ )

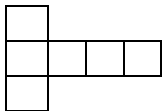
PAPER: 1MA0_2F				
Question	Working	Answer	Mark	Notes
5		$\frac{40}{200}$	3	<p><b>(uses frequencies)</b>  M1 for 40 or 200 or any correct day total  M1 for <math>\frac{40}{T}</math>, <math>T &gt; 40</math> or <math>\frac{n}{200}</math>, <math>n &lt; 200</math>  A1 for <math>\frac{40}{200}</math> oe accept 20%</p> <p><b>OR</b>  <b>(uses boxes)</b>  M1 for 2 or 10  M1 for <math>\frac{2}{T}</math>, <math>T &gt; 2</math> or <math>\frac{n}{10}</math>, <math>n &lt; 10</math>  A1 for <math>\frac{2}{10}</math> oe accept 20%</p> <p><b>OR</b>  <b>(uses rectangles)</b>  M1 for 8 or 40  M1 for <math>\frac{8}{T}</math>, <math>T &gt; 8</math> or <math>\frac{n}{40}</math>, <math>n &lt; 40</math>  A1 for <math>\frac{8}{40}</math> oe accept 20%</p> <p>[SC B2 for 40 out of 200 oe]</p>
6	(a)	circle drawn, centre $O$ radius $OP$	1	B1 for circle drawn radius $OP$ within guidelines of overlay
	(b)	chord drawn	1	B1 for any line drawn joining two points on circumference of circle (accept diameter) [NB shaded segment scores B0]

PAPER: 1MA0_2F				
Question	Working	Answer	Mark	Notes
7		110	2	M1 for $30 + 70 + 20 (=120)$ or $50 + 40 + 20 (=110)$ or $50 + 10 + 60 (=120)$ A1 cao
8	(a)	$4 \times 3$	1	B1 cao
	(b)		2	M1 for $4 \times 2 - 3$ A1 cao
9			2	<b>(uses percentages)</b> M1 for $30 - 25 (= 5)$ or $25 - 30 (= -5)$ A1 for 5% oe  OR <b>(uses decimals)</b> M1 for or $0.3 - 0.25$ or $0.25 - 0.3 (= -0.05)$ A1 for 0.05  OR <b>(uses fractions)</b> M1 for $\frac{30}{100} - \frac{1}{4}$ or $\frac{1}{4} - \frac{30}{100} (= -\frac{5}{100})$ A1 for $\frac{5}{100}$ oe  OR <b>(uses trial value, eg 60)</b> M1 for $0.3 \times 60 - 0.25 \times 60 (=3)$ or $0.25 \times 60 - 0.3 \times 60 (= -3)$ A1 for $\frac{3}{60}$ oe
*10			4	B1 for a key or suitable labels to identify Kitty and George B1 for diagram(s) or chart(s) set up for comparison, showing data for at least 3 months, eg dual bar chart, line graph etc B1 for correct heights for Kitty <b>or</b> George, dependent on a linear scale C1 for a fully correct diagram or chart to include 4 months labelled and eg 'cars' or 'frequency' axis correctly scaled and labelled



PAPER: 1MA0_2F					
Question		Working	Answer	Mark	Notes
11	(a)		12	1	B1 cao
	(b)		14	1	B1 cao
	(c)		16	1	B1 cao
12	(i)	2 2 3 3 3 4 4 5 5 6 ↑	3.5	6	M1 for ordering the data condone one extra or one omission A1 for 3.5 or $3\frac{1}{2}$
	(ii)		4		M1 for $6 - 2$ or $2 - 6$ A1 cao
	(iii)		3.7		M1 for $(2+2+3+3+3+4+4+5+5+6) \div 10$ condone missing brackets or $37 \div 10$ A1 for 3.7 or $3\frac{7}{10}$  [SC B1 for 31.6 or 33.4]
13			60	3	M1 for $9 \times 14 + 6 (=132)$ M1 (dep) for full method to convert '132' from lbs to kg using the graph <b>or</b> for ' $132 \div 2.2 (=60)$ ' A1 for $59 - 62$  OR M1 for reading off 14 lbs (= 6.2–6.5) and 6 lbs (=2.4–2.9) M1 (dep) for $9 \times '6.4' + '2.75'$ A1 for $59 - 62$  [SC B2 for 66]

PAPER: 1MA0_2F																													
Question	Working	Answer	Mark	Notes																									
*14		Correct statement	4	<p>M1 for <math>6.50 \times 8 + 12</math> or <math>6.50 \times 7 + 15</math>  M1 for <math>6.50 \times 8 + 12</math> and <math>6.50 \times 7 + 15</math>  A1 for 64 and 60.5(0)  C1 (dep on first M1) for correct statement ft their figures</p> <p>OR</p> <p>M1 for <math>6.50 \times (8-7)</math> or <math>15-12</math>  M1 for <math>6.50 \times (8-7)</math> and <math>15-12</math>  A1 for 6.5(0) and 3  C1 (dep on first M1) for correct statement ft their figures</p> <p>[SC If no working shown B1 for 64 and 60.5(0) <b>or</b> B1 for 6.5(0) and 3]</p>																									
15		<table border="1"> <thead> <tr> <th>coin</th> <th>tally</th> <th>freq</th> </tr> </thead> <tbody> <tr> <td>£1</td> <td>lll</td> <td>3</td> </tr> <tr> <td>50p</td> <td></td> <td>(0)</td> </tr> <tr> <td>20p</td> <td><del>lll</del>1</td> <td>6</td> </tr> <tr> <td>10p</td> <td>lll</td> <td>3</td> </tr> <tr> <td>5p</td> <td>ll</td> <td>2</td> </tr> <tr> <td>2p</td> <td></td> <td>(0)</td> </tr> <tr> <td>1p</td> <td>ll</td> <td>2</td> </tr> </tbody> </table>	coin	tally	freq	£1	lll	3	50p		(0)	20p	<del>lll</del> 1	6	10p	lll	3	5p	ll	2	2p		(0)	1p	ll	2	2	<p>B2 for all frequencies correct condone missing 0s  (B1 for at least 3 correct non zero frequencies or at least 3 correct non zero tallies or at least 2 correct non zero tallies with their frequencies correct)</p>	
coin	tally	freq																											
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PAPER: 1MA0_2F					
Question		Working	Answer	Mark	Notes
16	(a)		8	1	B1 cao
	(b)			2	M1 for 5 or 6 squares drawn and joined A1 for a correct net [NB missing internal lines may be implied by grid]
	(c)		54	2	M1 for $3 \times 3 \times 6$ oe A1 cao
17	(a)		720	2	M1 for $6 \times 120$ or $600 \times 120 \div 100$ oe A1 for 720 oe (accept 720.0)
	(b)		£10 or €12	3	M1 for $540 \div 1.2$ (=450) oe, eg $4 \times 100 + 50$ (=450) M1(dep) for $460 - '450'$ (=10) A1 for £10 oe (accept £10.0)  OR M1 for $460 \times 1.2$ (=552) oe, eg $4 \times 120 + 60 + 12$ (=552) M1 (dep) for $'552' - 540$ (=12) A1 for €12 oe (accept €12.0)
18			11	3	M1 for $52 \times \frac{3}{4}$ (=39) oe or $\frac{120}{360} \times 150$ (=50) oe  M1 for $52 \times \frac{3}{4}$ (=39) oe and $\frac{120}{360} \times 150$ (=50) oe A1 cao

PAPER: 1MA0_2F					
Question		Working	Answer	Mark	Notes
19	(a)		40	3	<p>M1 for <math>120 \times 100 (=12\ 000)</math> or <math>20 \times 15 (=300)</math>  M1 (dep) for '12 000' <math>\div</math> '300'  A1 cao</p> <p>OR</p> <p>M1 for <math>120 \div 15 (=8)</math> or <math>100 \div 20 (=5)</math>  M1 (dep) for '8' <math>\times</math> '5'  A1 cao</p> <p>OR</p> <p>M1 for <math>120 \div 20 (=6)</math> or <math>100 \div 15 (=6.66\dots)</math>  M1 (dep) for '6' <math>\times</math> '6.66...' (=40) or '6' <math>\times</math> '6' (=36) or '6' <math>\times</math> '7' (=42)  A1 cao</p>
	(b)		10.40	2	<p>M1 for <math>\frac{20}{100} \times 52</math> oe  A1 for 10.4(0)</p> <p>[SC B1 for 62.4(0) or 41.6(0)]</p>

PAPER: 1MA0_2F				
Question	Working	Answer	Mark	Notes
*20	<p><b>(Method 1)</b>            Angle <math>ACB = 180 - 135</math>            (= 45)            (sum of <u>angles</u> on a            straight line = <u>180</u>)</p> <p>Angle <math>ABC = 180 - 70 - 45</math> (=65) (sum of <u>angles</u>            in a <u>triangle</u> = <u>180</u>)</p> <p>(<math>x =</math>) <math>180 - 65</math> (=115)            (sum of <u>angles</u> on a            straight line = <u>180</u>)            OR</p> <p><b>(Method 2)</b>            Angle <math>ACB = 180 - 135</math>            (= 45)            (sum of <u>angles</u> on a            straight line = <u>180</u>)</p> <p>(<math>x =</math>) <math>70 + 45</math> (=115)            (<u>exterior angle</u> = <u>sum of</u>  <u>interior opposite angles</u>)</p> <p>OR</p> <p><b>(Method 3)</b>            Angle <math>DAB = 180 - 70 = 110</math> (sum of <u>angles</u> on a            straight line = <u>180</u>)</p> <p>(<math>x =</math>) <math>360 - 135 - 110</math>            (sum of <u>exterior angles</u> of            a <u>polygon</u> = <u>360</u>)</p>	$x = 115$	5	<p>M1 for correct method to find angle <math>DAB</math> or angle <math>ACB</math> or angle <math>ABC</math> (may be implied by correct angle marked in diagram)            M1 for complete correct method to find <math>x</math>            A1 for <u><math>x = 115</math></u></p> <p>C2 (dep on M1) for fully correct reasons for chosen method no extras            (C1 (dep on M1) for one correct reason for chosen method)</p> <p>[NB <math>x = 115</math> must be stated explicitly, 115 only scores A0]</p>

PAPER: 1MA0_2F					
Question		Working	Answer	Mark	Notes
21	(a)		2.70	3	<p>M1 for <math>2 \times 1.40 + 2.10 + 2.40 (= 7.30)</math>  M1 (dep) for <math>10 - '7.30'</math> or <math>2.7(0)</math>  A1 for 2.70 in correct money notation</p> <p>OR</p> <p>M1 for subtracting at least 2 different correct costs from (£)10  M1 for <math>10 - 1.40 - 1.40 - 2.10 - 2.40</math>  A1 for 2.70 in correct money notation</p> <p>[SC B1 for 4.10 in correct money notation]</p>
	(b)		2.21	3	<p>M1 for <math>2.60 \times 0.15 (= 0.39)</math> or <math>260 \times 0.15 (=39p)</math>  M1 (dep) for <math>2.60 - '0.39'</math> or <math>260-39 (=221p)</math>  A1 cao</p> <p>OR</p> <p>M1 for <math>1 - 0.15 (=0.85)</math> or <math>100 - 15 (=85)</math>  M1 (dep) for <math>2.60 \times 0.85</math> oe  A1 cao</p>

PAPER: 1MA0_2F				
Question	Working	Answer	Mark	Notes
*22		<p>Not enough mincemeat since <math>600 &lt; 700</math></p> <p>OR</p> <p>Only able to make 38 mince pies since insufficient mincemeat</p>	4	<p>M1 for <math>45 \div 18 (= 2.5)</math>  M1 for 2.5 used as factor or divisor  A1 for 562.5 and 875 and 250 and 700 and 2.5 (accept 2 or 3) OR for availables as 400 and 400 and 200 and 240 and 2.4 (accept 2 or 3)  C1 ft (dep on at least M1) for identifying and stating which ingredient is insufficient for the recipe (with some supportive evidence)</p> <p>OR</p> <p>M1 for a correct method to determine the number of pies one ingredient could produce  M1 for a correct method to determine the number of pies <b>all</b> ingredient could produce  A1 for 80 and 51 and 90 and 38 and 108  C1 ft (dep on at least M1) for identifying and stating which ingredient is insufficient for the recipe (with some supportive evidence)</p>
23	(a)	Response boxes overlap and are not exhaustive	2	B2 for <b>TWO</b> aspects from: No time frame given Non-exhaustive responses Response boxes over-lapping (B1 for ONE correct aspect)
	(b)	How many magazines do you buy each month? 0-4 5-8 over 8	2	B1 for a question with a time frame B1 for at least 3 correctly labelled response boxes (non-overlapping, need not be exhaustive) <b>or</b> for a set of response boxes that are exhaustive (could be overlapping)
	(c)	One reason	1	[NB do not allow inequalities in response boxes] B1 for one reason eg all the same age, may all be males, may all like same types of magazines, sample too small, biased

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Question	Working		Answer	Mark	Notes																																				
24	<table border="1"> <thead> <tr> <th><math>x</math></th> <th><math>x^3 + 2x</math></th> </tr> </thead> <tbody> <tr><td>4</td><td>72</td></tr> <tr><td>4.1</td><td>77.(121)</td></tr> <tr><td>4.2</td><td>82.(488)</td></tr> <tr><td>4.3</td><td>88.(107)</td></tr> <tr><td>4.4</td><td>93.(984)</td></tr> <tr><td>4.5</td><td>100.(125)</td></tr> <tr><td>4.6</td><td>106.(536)</td></tr> <tr><td>4.7</td><td>113.(223)</td></tr> <tr><td>4.8</td><td>120.(192)</td></tr> <tr><td>4.9</td><td>127.(449)</td></tr> <tr><td>5</td><td>135</td></tr> <tr><td> </td><td> </td></tr> <tr><td>4.65</td><td>109.8(44625)</td></tr> <tr><td>4.66</td><td>110.5(14696)</td></tr> <tr><td>4.67</td><td>111.1(87563)</td></tr> <tr><td>4.68</td><td>111.8(63232)</td></tr> <tr><td>4.69</td><td>112.5(41709)</td></tr> </tbody> </table>		$x$	$x^3 + 2x$	4	72	4.1	77.(121)	4.2	82.(488)	4.3	88.(107)	4.4	93.(984)	4.5	100.(125)	4.6	106.(536)	4.7	113.(223)	4.8	120.(192)	4.9	127.(449)	5	135			4.65	109.8(44625)	4.66	110.5(14696)	4.67	111.1(87563)	4.68	111.8(63232)	4.69	112.5(41709)	4.7	4	<p>B2 for a trial <math>4.6 \leq x \leq 4.7</math> evaluated correctly            (B1 for a trial evaluated correctly for <math>4 \leq x \leq 5</math> )            B1 for a different trial evaluated correctly for <math>4.65 \leq x &lt; 4.7</math>            B1 (dep on at least one previous B1) for 4.7</p> <p>[Note: Trials should be evaluated to at least accuracy shown in table, truncated or rounded]</p> <p>[NB No working scores 0 marks]</p>
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PAPER: 1MA0_2F				
Question	Working	Answer	Mark	Notes
25		28% or $\frac{14}{50}$	4	<p>M1 for <math>100 - 30 (=70)</math> or <math>1 - \frac{3}{10} (= \frac{7}{10})</math>  M1 for '+70' <math>\div (3 + 2) (=14)</math> or '<math>\frac{7}{10}</math>' <math>\div (3 + 2) (= \frac{7}{50})</math></p> <p>M1 for '14' <math>\times 2</math> or <math>\frac{7}{50} \times 2</math>  A1 for 28% or <math>\frac{14}{50}</math> oe</p> <p>OR</p> <p>M1 for a correct method to find <math>(100-30)\%</math> of any actual sum of money, eg <math>0.7 \times 500</math>  M1 for '<math>350</math>' <math>\div (3 + 2) (=70)</math>  M1 for '<math>70</math>' <math>\times 2 (=140)</math>  A1 for 28% or <math>\frac{14}{50}</math> oe</p> <p>OR</p> <p>M1 for starting with a two numbers in ratio 3:2, eg 21 and 14  M1 for equating sum of their numbers to <math>100 - 30 (=70)</math>, eg '<math>21</math>' + '<math>14</math>' <math>(=35)</math>  M1 for scaling sum of their numbers to 100%, eg '<math>35</math>' <math>\div 70 \times 100 (=50)</math>  A1 for 28% or <math>\frac{14}{50}</math> oe</p> <p>[SC award B3 for oe answers expressed in an incorrect form eg <math>\frac{2.8}{10}</math>]</p>
26	$3x - 6 = x + 7$ $2x = 13$	6.5	3	<p>M1 for <math>3 \times x - 3 \times 2 (=3x - 6)</math> or <math>\frac{x}{3} + \frac{7}{3}</math> seen  M1 for correct method to isolate the terms in <math>x</math> or the number terms on opposite sides of an equation  A1 for 6.5 oe</p>
27		3.52	3	<p>M1 for <math>1.35^2 + 3.25^2</math>  M1 (dep) for <math>\sqrt{1.35^2 + 3.25^2} (= \sqrt{12.385})</math>  A1 for answer in the range 3.51 to 3.52</p>



## Modifications to the mark scheme for Modified Large Print (MLP) papers.

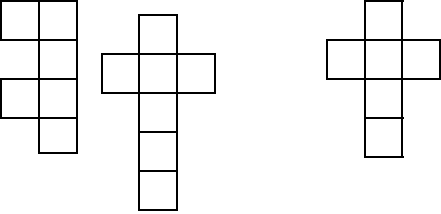
Only mark scheme amendments are shown where the enlargement or modification of the paper requires a change in the mark scheme.

The following tolerances should be accepted on marking MLP papers, unless otherwise stated below:

Angles:  $\pm 5^\circ$

Measurements of length:  $\pm 5$  mm

PAPER: 1MA0_2F			
Question		Modification	Notes
2		MLP: candidates told that there are three spaces to fill.  Braille: table shows: (i) centimetres (ii) ounces (iii) pints and candidates have been asked to write down what is missing.	Standard mark scheme  Standard mark scheme
3	(a)	size of diagram is $\times 1.5$	Standard mark scheme
	(b)	Line AB is 10 cm and T is 5 cm away from the line.	Standard mark scheme
6	(a)	OP = 5 cm and is a horizontal line.	B1 for circle drawn radius 4.5 to 5.5 cm
	(b)	circle size is increased by 1.5	Standard mark scheme
8	(a)	a is changed to e and b to f.	Standard mark scheme
10		1.5 cm grid.	B1 for <u>intention</u> to draw correct heights for Kitty <b>or</b> George, dependent on a linear scale

PAPER: 1MA0_2F		
Question	Modification	Notes
13	<p>x-axis: 1.5 cm for <math>\frac{1}{2}</math>  y-axis: 1.5 cm for 2  Leeway will be needed in marking answers.</p>	Standard mark scheme
16	<p>(a) Models as well as diagrams provided.</p> <p>(b) Question changed, now reads:  Look at the diagrams for Question 16(b). Which diagram, Shape 1, Shape 2 or Shape 3 is the net of a cube?</p>  <p>Shape 1    shape2    shape3</p> <p>(c) models as well as diagrams provided.</p>	<p>Standard mark scheme</p> <p>B2 for diagram 3</p> <p>Standard mark scheme</p>
20	Wording added: 'Angle FCA = $135^{\circ}$ Angle CAB = $70^{\circ}$	Standard mark scheme
26	MLP only: $x$ is changed to $y$ .	Standard mark scheme
27	Braille only. Wording added: 'XY = 1.35 metres. YZ = 3.25 metres.'	Standard mark scheme



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