



# Mark Scheme (Results)

January 2020

Pearson Edexcel International GCSE  
In Mathematics B (4MB1)  
Paper 02

## **Edexcel and BTEC Qualifications**

Edexcel and BTEC qualifications are awarded by Pearson, the UK's largest awarding body. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers. For further information visit our qualifications websites at [www.edexcel.com](http://www.edexcel.com) or [www.btec.co.uk](http://www.btec.co.uk). Alternatively, you can get in touch with us using the details on our contact us page at [www.edexcel.com/contactus](http://www.edexcel.com/contactus).

## **Pearson: helping people progress, everywhere**

Pearson aspires to be the world's leading learning company. Our aim is to help everyone progress in their lives through education. We believe in every kind of learning, for all kinds of people, wherever they are in the world. We've been involved in education for over 150 years, and by working across 70 countries, in 100 languages, we have built an international reputation for our commitment to high standards and raising achievement through innovation in education. Find out more about how we can help you and your students at: [www.pearson.com/uk](http://www.pearson.com/uk)

January 2020

Publications Code 4MB1\_02\_2001\_MS

All the material in this publication is copyright

© Pearson Education Ltd 2020

## General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- 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.

- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

- **Types of mark**

- M marks: method marks
- A marks: accuracy marks
- B marks: unconditional accuracy marks (independent of M marks)

- **Abbreviations**

- cao – correct answer only
- ft – follow through
- isw – ignore subsequent working
- SC - special case
- oe – or equivalent (and appropriate)
- dep – dependent
- indep – independent
- awrt – answer which rounds to

- eeo – each error or omission

- **No working**

If no working is shown then correct answers normally score full marks

If no working is shown then incorrect (even though nearly correct) answers score no marks.

- **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 it is clear from the working that the “correct” answer has been obtained from incorrect working, award 0 marks.

If a candidate misreads a number from the question. Eg. Uses 252 instead of 255; method marks may be awarded provided the question has not been simplified. Examiners should send any instance of a suspected misread to review. If there is a choice of methods shown, then award the lowest mark, unless the subsequent working makes clear the method that has been used.

- **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: eg. Incorrect cancelling 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 eg algebra.

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

- **Parts of questions**

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

Question		Working	Answer	Mark	Notes
1	(a)		90	1	B1 oe Allow $2 \times 3^2 \times 5$ ISW
	(b)		1 247 400	1	B1 oe Allow $2^3 \times 3^4 \times 5^2 \times 7 \times 11$ ISW
					SC If both answers correct but the wrong way round award (a) B1 (b) B0.
	(c)		70	1	B1 oe $2 \times 5 \times 7$ ISW
	(d)	$15 \times 10^{410}$ or $1.5 \times 10^n$ where $n$ is an integer		2	M1 Allow $3 \times 5 \times 10^{410}$
			$1.5 \times 10^{411}$		A1
					<b>Total 5 marks</b>

Question	Working	Answer	Mark	Notes
<b>2</b>	<b>They do not need to label their shapes to gain the marks.</b>			
(a)		Parallelogram drawn at (2,1), (5,1), (3,3) and (6,3)	1	B1
(b)	for an attempt to translate their parallelogram A		2	M1 Allow 3 points of their shape moved +2 horizontally <b>or</b> 3 points of their shape moved -5 vertically
		Translation $\begin{pmatrix} 2 \\ -5 \end{pmatrix}$		A1 ft their shape A <b>or</b> Vertices at (5,-2), (8,-2) (4,-4), (7,-4)
(c)	for line $x = 2$ drawn and one correct point ft their shape B <b>or</b> 2 correct ft points of their shape B given <b>or</b> their shape A correctly reflected in the line $x = 2$		2	M1
		Parallelogram C drawn		A1 ft their shape B. <b>or</b> Vertices at (-1,-2), (0,-4) (-4,-2), (-3,-4)
(d)	for a correct orientation $\pm 90^\circ$ of their shape C		2	M1 May be in the wrong place. Ft their shape C.
		Parallelogram D drawn		A1cao Vertices at (-3,1), (-1,2) (-3,4), (-1,5).
				<b>Total 7 marks</b>

Question	Working	Answer	Mark	Notes
3	(a)	$[OA = ]15 \tan 25$ oe	3	M1 A correct method for finding $OA$ eg $\frac{15}{\tan 65}$ or $\sqrt{\left(\frac{15}{\cos 25}\right)^2 - 15^2}$ or awrt 6.99
		$[Area\ of\ circle = ]\pi ("OA")^2$		M1 Correct method for finding the area of the circle. Allow use of their $OA$ ( may be on diagram) and $22/7$ for $\pi$
				A1 Allow awrt 154 or awrt 153, Ignore units
	(b)	$[Area\ of\ triangle = ]$ $\frac{1}{2}(15)("6.9946...")$	4	M1 Correct method for finding the area of the triangle. ft their $OA$ from part(a) if working shown eg $\frac{1}{2}(15)\left(\frac{15}{\cos 25}\right)\sin 25$ or $\frac{1}{2}(15)\left(\sqrt{15^2 + "6.9946..."^2}\right)\sin 25$ or awrt 52.4 or 52.5
		$[Area\ of\ sector = ]$ $\frac{65}{360}\pi ("OA")^2$ or $\frac{65}{360} \times (a)$		M1 Allow $22/7$ for $\pi$ . ft their part(a) or $OA$ if working shown or awrt $8.83\pi$ or awrt 27.8/ 27.7
	$[Area\ of\ shaded\ ABC = ]$ $"52.4596..." - \frac{65}{360} ("153.70128...")$	M1 dependent on both previous M marks Implied by awrt 24.7		
		A1 awrt 24.6 – 24.8 with no incorrect working. Ignore units		
		24.7 [cm <sup>2</sup> ]		
				<b>Total 7 marks</b>

Question	Working	Answer	Mark	Notes
4	(a)	$x = \frac{8x^2 - 105}{6x + 1}$	2	M1 for a correct equation. May be see in part (b)
		$x(6x + 1) = 8x^2 - 105$		$2x^2 - x - 105$
	(b)	$(2x - 15)(x + 7) = 0$	4	M1 May be seen in part(a) For solving the <b>given</b> 3TQ - 2 terms correct when multiplied out. Allow use of quadratic formula / completing the square with no errors for the <b>given</b> 3TQ (Not implied by correct values of $x$ )
		$x = 7.5 \quad (x = -7)$		A1 Correct working must be shown. 7.5 with no algebraic method shown gains M0A0 May be seen in part(a)
		$8(7.5)^2 - 105$		M1Substituting at least one of their $x$ values into $8x^2 - 105$ (allow subst of -ve values). Working must be shown. May be seen in part(a)
				A1 dependent on at least 1 M mark being awarded Do not ISW. No need for units. Do not award if more than one value given. Do not award from incorrect working (eg use of -7.5) May be seen in part(a)
				345[ m]
				<b>Total 6 marks</b>

Question	Working	Answer	Mark	Notes
5	(a)	$\frac{5}{8}, \frac{3}{8}$ $\frac{1}{4}, \frac{3}{4}$ $\frac{1}{6}, \frac{5}{6}$	3	B1 for each correct pair of values in the correct place  Allow 0.625 and 0.375 Allow 0.25 and 0.75 Allow awrt 0.17 awrt 0.83 Allow as percentages
	(b)	$\frac{3}{8} \times \frac{5}{6}$ oe	2	M1 ft their probabilities if $0 < p < 1$
		$\frac{5}{16}$		A1 oe allow awrt 0.31
	(c)	$\left(\frac{5}{8} \times \frac{3}{4}\right) + \left(\frac{3}{8} \times \frac{1}{6}\right)$ oe	2	M1 ft their probabilities if $0 < p < 1$ Allow $1 - \left(\frac{5}{8} \times \frac{1}{4}\right) + \left(\frac{3}{8} \times \frac{5}{6}\right)$
		$\frac{17}{32}$		A1 oe allow awrt 0.53
	(d)	$\frac{5}{8} \times \frac{1}{4} \times \frac{3}{5}$ or $\frac{5}{8} \times \frac{1}{4} \times \frac{2}{5}$	3	M1 ft their probabilities if $0 < p < 1$ Allow even if embedded in an incorrect calculation
		$1 - \left(\frac{5}{8} \times \frac{1}{4} \times \frac{3}{5}\right)$ oe or $\frac{5}{8} \times \frac{1}{4} \times \frac{2}{5} + \frac{5}{8} \times \frac{3}{4} + \frac{3}{8}$ oe		M1dep on previous method mark being awarded ft if $0 < p < 1$ . $\frac{5}{8} \times \frac{1}{4} \times \frac{2}{5} + \frac{5}{8} \times \frac{3}{4} + \frac{3}{8}$ oe
		$\frac{29}{32}$		A1 oe Allow awrt 0.91
				SC " $\frac{3}{8} \times \frac{5}{6} \times \frac{2}{5}$ " seen as method can earn the first M1
<b>Total 10 marks</b>				

Question	Working	Answer	Mark	Notes
6 (a)		$[x = ]1.5$	1	B1 oe eg allow $[x \neq ]1.5$ or 1.5 on its own
(b)		$\left(x + \frac{1}{2}\right)^2 - \frac{25}{4}$	2	B1 for $a = \frac{1}{2}$ oe      B1 for $b = -\frac{25}{4}$ oe
(c)		$f(x) \geq -\frac{25}{4}$	1	B1 ft correct answer or follow through their value of $b$ . Allow $f$ or $y$ instead of $f(x)$ but do not allow $x$
(d)	$\frac{2c-24}{3-2c} = 0$		2	M1 Set $g(x)$ equal to zero or for $\left[g^{-1}(x) = \right]\frac{3x+24}{2+2x}$ oe
		$c = 12$		A1 check for incorrect working
(e)	$(x^2 + x - 6)(3 - 2x) = 2x - 24$		3	M1 Equate and multiply both sides by $3 - 2x$ . Implied by next line. Condone missing brackets if clear from following line they are there.
	$3x^2 - 2x^3 + 3x - 2x^2 - 18 + 12x = 2x - 24$			M1 dep dependent on previous method mark being awarded. Expanding brackets (allow one slip)
		$2x^3 - x^2 - 13x - 6 = 0$		A1 Note: the answer is given so sufficient working must be seen. Both Method marks must be awarded and a fully correct solution with no errors.
(f)	Substitute $-0.5$ into the cubic		2	M1 Allow 1 slip
	$2\left(-\frac{1}{2}\right)^3 - \left(-\frac{1}{2}\right)^2 - 13\left(-\frac{1}{2}\right) - 6 = 0$	$= 0$		A1 must have $= 0$
(g)	$x^2 + ax - 6$ or $2x^2 + ax - 12$		4	M1 dividing by $2x + 1$ to get quadratic of form $x^2 + ax - 6$ or $2x^2 + ax - 12$ May be seen in part (f). May be implied by a correct quadratic. NB $x^2 + x - 6$ scores M0 because this is $f(x)$
	$x^2 - x - 6$ or $2x^2 - 2x - 12$			A1 May be seen in part (f)
	$(x-3)(x+2)$ or $2(x-3)(x+2)$ oe			M1dep on previous M mark being awarded. Solving their 3TQ from division - 2 terms correct when $\times$ out.
				<b>NB</b> use of calculator to gain values of $-0.5$ , $-2$ and $3$ gains M1A1M1 and
		$(3,6)$		A1 only one set of coordinates must be given.
				<b>Total 15 marks</b>

Question		Working	Answer	Mark	Notes
7	(a)	eg $[r^2 = ]16 - h^2$ or $[r = ]\sqrt{16 - h^2}$		3	M1 Use of Pythagoras' to find $r^2$ or $r$ eg $\frac{\sqrt{8^2 - (2h)^2}}{2}$
		$V = \pi(16 - h^2)(2h)$			M1dep dependent on previous method mark being awarded. ft their $r$ if previous M awarded
			$V = 32\pi h - 2\pi h^3$		A1 Note that answer given so sufficient working must be given. No incorrect working seen.
	(b)	$\left[\frac{dV}{dh} = \right] 32\pi - 6\pi h^2$		4	M1 Differentiate – at least one term correct
		$\frac{dV}{dh} = 0 \Rightarrow h = \dots$			M1dep dependent on previous method mark being awarded. Set derivative equal to zero and solve for $h$
		$V_{\max} = 32\pi\left(\frac{4}{\sqrt{3}}\right) - 2\pi\left(\frac{4}{\sqrt{3}}\right)^3$			M1 Substitute their $h$ into correct $V$ – dependent on both previous M marks Allow subst of awrt 2.31
			155		A1 awrt 155
	(c)		1.0 to 1.1 inclusive	2	B1
			3.3 to 3.4 inclusive		B1
					<b>Total 9 marks</b>

Question	Working	Answer	Mark	Notes
8	(a)	[Perimeter = ] $x + 2x + 2y + y + (2y - x) + (2x - y)$ (oe)	2	M1 Correct perimeter eg $4y + 4x$ Implied by a correct simplified equation
				$x + y = 17$
	(b)	[Area =] $(2y)(2x) - (2y - x)(2x - y)$ or $2x \times x + 2y \times y - xy$ with $FE = 2y$ and $DE = 2x$ clear	3	M1 Valid method for finding the area Allow $2x \times x + 2y \times y - xy$ but must not be $2x^2$ etc and must be clear $FE = 2y$ and $DE = 2x$ . May be on diagram
		$4xy - (4xy - 2y^2 - 2x^2 + xy)$ oe Or explanation of why subtracting $xy$ eg $CD \times AF$ or square highlighted on diagram		M1 correct expansion of brackets Or reason why subtracting
				<b>NB</b> Allow M2 for $2x^2 + y(2y - x)$ or $2y^2 + x(2x - y)$
		$2y^2 + 2x^2 - xy = 248$		A1 Note that answer given so sufficient working must be given. Previous M marks must be awarded. No incorrect working seen.
	(c)	$2(17 - x)^2 + 2x^2 - x(17 - x) = 248$ (oe)	5	M1 Substitute to eliminate either $x$ or $y$ using their answer to (a) and the equation given in (b)
		$2(289 - 34x + x^2) + 2x^2 - 17x + x^2 = 248$ $\Rightarrow x^2 - 17x + 66 = 0$ (oe)		M1 dep dependent on the previous method mark being awarded. Correctly expand and reduce theirs to a 3TQ in terms of $x$ or $y$ (does not need to equal zero eg allow $x^2 - 17x = -66$ )
		$(x - 11)(x - 6) = 0$		M1 correct method seen for solving their three term quadratic. Allow correct use of formula.
		$x = 11$ and $y = 6$ or $y = 11$ and $x = 6$		A1 dep on at least two M1 being awarded. At least one correct pair
		$AB = 1$ m or $16$ m		A1 dep on at least two M1 being awarded. Both answers needed including units.
				<b>Total 10 marks</b>

Question	Working	Answer	Mark	Notes
9	$A = CB$ or $\begin{pmatrix} 3 & 4 \\ -1 & 2 \end{pmatrix} = C \begin{pmatrix} 3 & -1 \\ 2 & -2 \end{pmatrix}$ oe		5	M1 setting up the correct equation Allow if written or used $C = AB^{-1}$
	$\begin{pmatrix} 3 & -1 \\ 2 & -2 \end{pmatrix}^{-1} = \frac{1}{-6+2} \begin{pmatrix} -2 & 1 \\ -2 & 3 \end{pmatrix}$			B1 for determinant – may be unsimplified. B1 for $\begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$
	$C = "-\frac{1}{4}" \begin{pmatrix} 3 & 4 \\ -1 & 2 \end{pmatrix} "-\frac{1}{4}" \begin{pmatrix} -2 & 1 \\ -2 & 3 \end{pmatrix} "$			M1dep dependent on the first M1 and at least one B1 Must use their $B^{-1}$
		$C = -\frac{1}{4} \begin{pmatrix} -14 & 15 \\ -2 & 5 \end{pmatrix}$		A1 oe eg $\begin{pmatrix} 3.5 & -3.75 \\ 0.5 & -1.25 \end{pmatrix}$
<b>Total 5 marks</b>				
<b>Alternative</b>				
	$A = CB$ or $\begin{pmatrix} 3 & 4 \\ -1 & 2 \end{pmatrix} = C \begin{pmatrix} 3 & -1 \\ 2 & -2 \end{pmatrix}$ or $\begin{pmatrix} 3 & 4 \\ -1 & 2 \end{pmatrix} = \begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} 3 & -1 \\ 2 & -2 \end{pmatrix}$ oe			M1 setting up the correct equation. Implied by 4 correct equations.
	$3 = 3a + 2b$ $4 = -a - 2b$ $-1 = 3c + 2d$ $2 = -c - 2d$			B2 for 4 correct equations. Implied by both $a$ and $b$ correct and both $c$ and $d$ correct (B1 for 2 correct equations. Implied by both $a$ and $b$ correct or both $c$ and $d$ correct)
	$a = \frac{7}{2}$ $b = -\frac{15}{4}$ $c = \frac{1}{2}$ $d = -\frac{5}{4}$			M1dep dependent on the first M1 and at least one B1. For solving to gain 2 correct values
		$C = -\frac{1}{4} \begin{pmatrix} -14 & 15 \\ -2 & 5 \end{pmatrix}$		A1 oe eg $\begin{pmatrix} 3.5 & -3.75 \\ 0.5 & -1.25 \end{pmatrix}$
NB Correct answer with no incorrect working gains full marks				

Question	Working	Answer	Mark	Notes
10	(a)	eg $6^2 = 10^2 + 7^2 - 2 \times 10 \times 7 \times \cos(\theta)$ (oe)	5	M1 Use of cosine rule in any form to find any angle (ignore incorrect labels). May be seen in part (b) Use of Heron's formula $S = \frac{6+7+10}{2} [= 11.5]$
		$\cos \angle \theta = \frac{10^2 + 7^2 - 6^2}{2(10)(7)}$ (oe)		M1dep Dependent on first M mark. Ignore incorrect labels. Using Heron's "11.5" $\times (6 - "11.5") \times (7 - "11.5") \times (10 - "11.5")$ [= 426.9375] May be seen in part (b)
		[ $\angle ABC =$ ]36.1822... or [ $\angle ACB =$ ]100.2865... or [ $\angle CAB =$ ]43.5311...		A1 one correct angle. Allow awrt 3 sf. Ignore incorrect labels. Using Heron's awrt 427 May be seen in part (b)
		Area = $\frac{1}{2}(10)(7) \sin(36.1822...)$ or Area = $\frac{1}{2}(7)(6) \sin(100.2865...)$ or Area = $\frac{1}{2}(10)(6) \sin(43.5311...)$		M1dep Dependent on first M mark. Must use the correct sides with the correct angle. For angle allow awrt 36, awrt 44, awrt 100 Using Heron's $\sqrt{"426.9375"}$ May be seen in part (b)
				20.7 [cm <sup>2</sup> ] A1 awrt 20.7 May be seen in part (b)
(b)	Splitting up triangle into 3 each with height $r$		3	M1
	$\frac{1}{2}(10)(r) + \frac{1}{2}(6)(r) + \frac{1}{2}(7)(r) = 20.6624.$			M1dep Dependent on first M mark
		1.8 [cm]		A1 Please check working is valid

*Total 8 marks*

**NB Alternative for (b) on next page**

Alternative for (b)					
		eg $\frac{r}{XB} = \tan\left(\frac{"36.1822"}{2}\right)$ and $\frac{r}{AX} = \tan\left(\frac{"43.531"}{2}\right)$		3	M1 Setting up two equations, in any form, to find the length of any side of triangle
		eg. $\frac{r}{\tan("18.09...")} + \frac{r}{\tan("21.765...")} = 10$			M1dep Dependent on first M mark. For adding the 2 parts and equating
			1.8 [cm]		A1 Please check working is valid

Question	Working	Answer	Mark	Notes
11	$2x+3(4-3x) < 8x \Rightarrow 15x > 12$		7	M1 Reduce linear inequality to $ax > b$ with either $a$ or $b$ correct or allow $15x < 12$ oe
	$6x-5 \leq 4x^2-12x+9$			M1 Expand brackets in an equation or inequality – allow one sign or numerical error(simplified or unsimplified)
	$2x^2-9x+7 \geq 0$			M1 a correct 3TQ in an equation or inequality
	$(2x-7)(x-1) [\geq 0]$			M1 Factorise their 3TQ (oe) to find 2 critical values. 2 terms correct when multiplied out. Or a correct method if formula used. Implied by 1 and 7/2
	$x \leq "1"$ and $x \geq "\frac{7}{2}"$			M1 Choose outside region for their 2 different critical values obtained from their 3TQ. Allow " $\frac{7}{2} \leq x \leq "1"$ "
	$x > \frac{4}{5}$ OR $x \leq 1$ and $x \geq \frac{7}{2}$			A1 Dependent on at least one M1
		$\frac{4}{5} < x \leq 1$ and $x \geq \frac{7}{2}$		A1 Dependent on at least 4 M1's
				<b>Total 7 marks</b>

Question	Working	Answer	Mark	Notes	
12	(a)	$\frac{3}{8+3+1} \times 30$		2	M1
			7.5 [kg]		A1
	(b)	$\frac{15.04}{1.175}$		2	M1
			[\$]12.8(0)		A1
	(c)	$6 \times 60 \times 60$ [=21600]		4	M1 Correctly converting 6 hours into seconds
		"21600" $\times$ 530 [=11448000]			M1dep for no of grams in 6 hours
		$\frac{"11448000"}{30000}$ [=381.6 oe] or			M1dep Dependent on both previous M marks
			381 [bags]		A1 cao
		<b>Alternative</b>			
		$6 \times 60 \times 60$ [=21600]			M1 Correctly converting 6 hours into seconds
		$\frac{"21600"}{30000}$ [=0.72]			M1dep for no of seconds per gram
		"0.72" $\times$ 530 [=381.6 oe]			M1dep Dependent on both previous M marks
			381 [bags]		A1 cao
	(d)	There are many ways of comparing the costs. Some are below but this is not an exhaustive list.			
		e.g. Farmer A: $\frac{150.75}{30}$ (= £5.025 per kg)		3	M1 Calculate the cost per kg for either farmer
		Farmer B: $\frac{162.35}{1.315 \times 25}$ (= £4.938... per kg)			M1 Calculate comparable cost(s) for both farmers with same units
			Farmer B is cheaper		A1 Dependent on both previous M marks. No incorrect working seen. Allow truncation or rounding of £/\$
<b>Total 11 marks</b>					
<b>NB Alternatives for (d) M1M1 next page</b>					

<b>Alternatives for (d) M1M1</b>				
<b>A1</b>		Farmer B: $\frac{162.35}{25}$ (= \$6.494 per kg)		M1 Calculate the cost per kg for either farmer
		Farmer A: $\frac{150.75}{30} \times 1.315$ (= \$6.607... per kg)		M1 Calculate comparable cost(s) for both farmers with same units
<b>A2</b>		Farmer A: $\text{£}150.75 \times 1.315$ [= \$198.24]		M1 Converting cost of 30kg to \$
		Farmer B: $\frac{162.35}{25} \times 30$ [= \$194.82]		M1 Calculate comparable cost(s) for both farmers for the same weight
<b>A3</b>		Farmer B: $\frac{162.35}{1.315}$ [= £123.46]		M1 Converting cost of 25kg to £
		Farmer A: $\frac{150.75}{30} \times 25$ [= £125.625]		M1 Calculate comparable cost(s) for both farmers for the same weight
<b>Helpful figures</b>				
Kg/\$ 0.151 and 0.153		Kg/£ 0.199 and 0.202		



