



# Mark Scheme (Results)

November 2024

Pearson Edexcel International GCSE  
In Mathematics A (4MA1) Paper 1F

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## 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
- eeoo – 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.

Any case of suspected misread loses A (and B) marks on that part, but can gain the M marks.

If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.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

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

- **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 in another.

International GCSE Maths				
Values in quotation marks must come from a correct method previously seen unless clearly stated otherwise.				
Q	Working	Answer	Mark	Notes
<b>1</b> (a)		Laerdal	1	B1 allow incorrect spelling
(b)		900	1	B1 allow 9 hundreds
(c)		St Gotthard	1	B1 allow incorrect spelling
(d)		twelve thousand nine hundred (and) forty	1	B1 allow incorrect spelling
(e)		31 512	1	B1 cao
				<b>Total 5 marks</b>

<b>2</b>	(a)(i)		Isosceles	1	B1 allow incorrect spelling
	(ii)		Square	1	B1 allow incorrect spelling
	(b)		Correct line	1	B1
	(c)		4	1	B1 cao
					<b>Total 4 marks</b>

<b>3</b>	(a)		16	1	B1 cao
	(b)	19 and 10 or $-9$ or $19 - x$ or $y - 10$		2	M1 Allow 19 and 10 seen on pictogram $x$ and $y$ are incorrect values
		<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	9		A1 SC B1 for 3 or 6 with or without seeing the figures on the pictogram
	(c)		Three large squares and one small square	1	B1 oe eg 13 small squares
					<b>Total 4 marks</b>

<b>4</b>	(a)		70	1	B1 cao
	(b)		15	1	B1 cao
	(c)		7000	1	B1 allow $-40$
					<b>Total 3 marks</b>

<b>5</b>	(a)		$11d$	1	B1
	(b)		$10pm$	1	B1 or $10mp$
	(c)		$-24$	1	B1 cao
	(d)		$48$	1	B1cao
	(e)		$a^4$	1	B1 cao
	(f)	$9 \times 8$ or 72 <b>and</b> $\pm 4 \times 12$ or $\pm 48$		2	M1
		<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	24		A1 cao SC B1 for 76
					<b>Total 7 marks</b>

<b>6</b>	$2358 \times 0.28$ (= 660.24)	$2358 \times 0.28$ (= 660.24)	$2358 \div 12$ (= 196.5)	$2358 \div 12$ (= 196.5)	$42 \div 0.28$ (= 150)	$42 \times 12$ (= 504)		4	M1
	$42 \times 12$ (= 504)	$660.24 \div 12$ (= 55.02)	$"196.5" \times 0.28$ (= 55.02)	$42 \div 0.28$ (= 150)	$"150" \times 12$ (= 1800)	$"504" \div 0.28$ (= 1800)			M1
	"660.24" – "504" or $("55.02" - 42) \times 12$ oe or $("196.5" - "150") \times 12 \times 0.28$ oe or $(2358 - "1800") \times 0.28$ oe								M1
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>						156.24		A1
							<b>Total 4 marks</b>		

<b>7</b>	180 – 138 (= 42)		4	M1 NB If angles are on the diagram they must be from correct working and correctly assigned
	360 – (“42” + 107 + 125)			M1
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	86		A1
		one correct reason		B1 dep on M1 for one correct reason (i) <u>Angles</u> on a straight <u>line</u> add to 180° or angles on a straight <u>line</u> add to <u>180°</u> (ii) <u>Angles</u> in a <u>quadrilateral</u> sum to 360° or angles in a <u>quadrilateral</u> sum to <u>360°</u>
				<b>Total 4 marks</b>

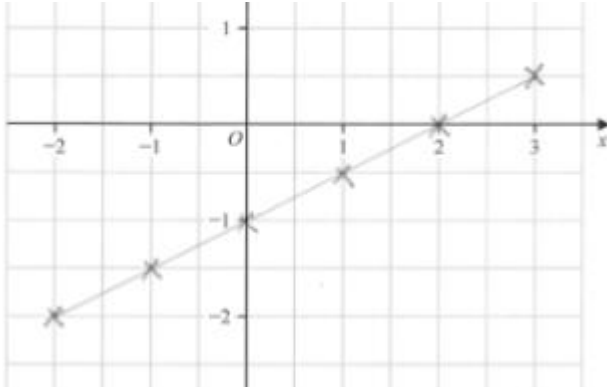
<b>8</b> (a)		$\frac{27}{80}$	1	B1 oe 0.33(75) or 33(.75)% truncated or rounded
(b)	80 – (27 + 10) (= 43) oe or 80 – 37 (= 43) $\frac{80 - (27 + 10)}{80}$ oe or $\frac{80 - 37}{80}$		2	M1
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$\frac{43}{80}$		A1 oe 0.53(75) or 53(.75)% truncated or rounded NB Penalise incorrect notation once
				<b>Total 3 marks</b>

<b>9</b>	41.25 ÷ 15 oe or 2.75 oe or $\frac{52}{15} \times 41.25$ oe		2	M1
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	143		A1
				<b>Total 2 marks</b>



10	$[5.8, 6.2] \times 1.5$ (= [8.7, 9.3])	$[5.8, 6.2] \times 18$ (= [104.4, 111.6])		3	M1	M2 for [5.8, 6.2] $\times$ 27
	“[8.7, 9.3]” $\times 18$ (= [156.6, 167.4]) or their value $\times 18$	“[104.4, 111.6]” $\times 1.5$ (= [156.6, 167.4]) or their value $\times 1.5$			M1 Do not allow $18 \times 1.5$ oe on its own	
	Correct answer scores full marks (unless from obvious incorrect working)		162		A1 allow [156.6, 167.4]  Ignore attempts at conversions from minutes to hours/minutes or seconds	
					Total 3 marks	

<b>11</b>	$c - 5 = 8d$ oe or $-8d = -c + 5$ or $\frac{c}{8} = d + \frac{5}{8}$ oe or $\frac{c-5}{8}$ oe			M1
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$d = \frac{c-5}{8}$		A1 accept $d = \frac{c}{8} - \frac{5}{8}$ oe or $d = \frac{5-c}{-8}$ oe (must see $d = \dots$ on answer line or in working)
				<b>Total 2 marks</b>

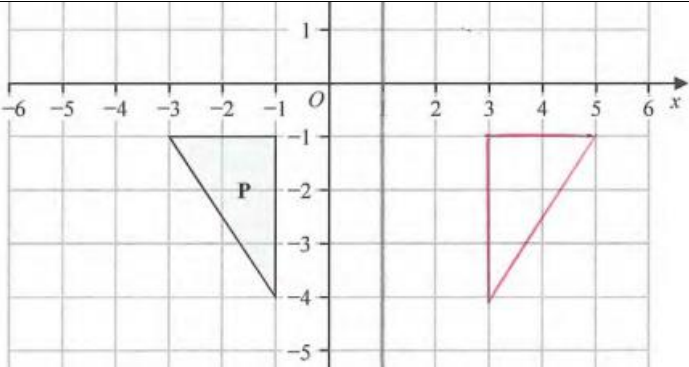
12	<table><tr><td>x</td><td>-2</td><td>-1</td><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>y</td><td>-2</td><td>-1.5</td><td>-1</td><td>-0.5</td><td>0</td><td>0.5</td></tr></table> <p><math>(-2, -2) (-1, -1.5) (0, -1) (1, -0.5) (2, 0) (3, 0.5)</math></p> 	x	-2	-1	0	1	2	3	y	-2	-1.5	-1	-0.5	0	0.5	Correct line between $x = -2$ and $x = 3$	3	B3 for a correct line between $x = -2$ and $x = 3$  (B2 for a correct straight line segment through at least 3 of $(-2, -2) (-1, -1.5) (0, -1) (1, -0.5) (2, 0) (3, 0.5)$ <b>or</b> for all of $(-2, -2) (-1, -1.5) (0, -1) (1, -0.5) (2, 0) (3, 0.5)$ plotted but not joined)  (B1 for at least 2 correct points stated (may be in a table) <b>or</b> plotted <b>or</b> for a line drawn with a positive gradient through $(0, -1)$ <b>or</b> for a line with a gradient of 0.5)
x	-2	-1	0	1	2	3												
y	-2	-1.5	-1	-0.5	0	0.5												
				Total 3 marks														

13	$3.6 \times 2.1 (= 7.56)$ or $0.3 \times 0.3 (= 0.09)$ or $3.6 \div 0.3 (= 12)$ or $2.1 \div 0.3 (= 7)$		4	M1
	$"7.56" \div "0.09" (= 84)$ or $"12" \times "7" (= 84)$			M1
	$"84" \div 6 \times 17.5(0)$ oe			M1 for a complete method
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	245		A1
				<b>Total 4 marks</b>

<b>14</b> (a)	(3)	(4)	<b>5</b>	<b>6</b>	For all correct values	2	B2 for all correct values (B1 for 6 or 7 correct values)
	<b>5</b>	<b>6</b>	(7)	<b>8</b>			
	<b>7</b>	<b>8</b>	<b>9</b>	(10)			
(b)						2	M1 for $\frac{m}{12}$ where $m < 12$ or $\frac{11}{n}$ where $n > 11$ or for 11:12
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>				$\frac{11}{12}$		A1 oe 0.91(666...) or 91(.666...) % truncated or rounded
							<b>Total 4 marks</b>

<b>15</b>	$0.35 \times 140 (= 49)$ oe or $14 + 14 + 14 + 7 (= 49)$ oe or $\frac{1}{4} \times 140 (= 35)$ oe or $140 \div 4 (= 35)$ or $0.4 \times 140 (= 56)$ oe		4	M1
	“49” $\times 6 (= 294)$ oe or “35” $\times 8 (= 280)$ oe or $(140 - \text{“49”} - \text{“35”}) \times 10 (= 560)$ or “56” $\times 10 (= 560)$			M1 for 1 correct
	“49” $\times 6 (= 294)$ oe <b>and</b> “35” $\times 8 (= 280)$ oe <b>and</b> $(140 - \text{“49”} - \text{“35”}) \times 10 (= 560)$ or “56” $\times 10 (= 560)$			M1 for all correct
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	1134		A1 cao
				<b>Total 4 marks</b>

<b>16</b>	30 or 50		2	M1
	<i>Working required</i>	1500		A1 cao dep on M1  1500 must come from correct figures of 30 <b>and</b> 50
				<b>Total 2 marks</b>

<b>17</b>		Triangle with vertices (3, -1) (5, -1) (3, -4)	2	B2 for a correct reflection  (B1 for a correct reflection in a vertical line or for 2 points of the correct triangle or for a correct reflection in $y = 1$ )  Overlay is available
				<b>Total 2 marks</b>

<b>18</b>	(a)		$10 < p \leq 15$	1	B1 allow $10 \leq p \leq 15$ or $10 < p < 15$ or $10 \leq p < 15$ or $10 - 15$
	(b)	$12.5 \times 18 + 17.5 \times 16 + 22.5 \times 14 + 27.5 \times 8 + 32.5 \times 4$ $(= 1170)$  or  $225 + 280 + 315 + 220 + 130 (= 1170)$  [lower bound products are: 180, 240, 280, 200, 120] [upper bound products are: 270, 320, 350, 240, 140]  Sum of lower bound products = 1020 Sum of upper bound products = 1320  Sum of products using 11, 16, 21, 26 and 31 = 1080 Sum of products using 12, 17, 22, 27 and 32 = 1140 Sum of products using 13, 18, 23, 28 and 33 = 1200 Sum of products using 14, 19, 24, 29 and 34 = 1260		4	M2 for at least <b>4</b> correct products added (need not be evaluated) <b>or</b>  If not M2 then award:  M1 for consistent use of value within interval (including end points) for at least <b>4</b> products which must be added  or  correct midpoints used for at least <b>4</b> products and not added
		"1170" $\div$ 60			M1 dep on at least M1  Allow division by their $\Sigma f$ provided addition or total under column seen
		<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	19.5		A1 oe
					<b>Total 5 marks</b>

<b>19</b>		Fully correct angle bisector with all relevant arcs	2	<p>B2 for a fully correct angle bisector with all arcs shown (the line and the arcs can intersect on or within the overlay guidelines)</p> <p>(B1 for all arcs and no angle bisector drawn or for a correct angle bisector within or on guidelines but no arcs or insufficient arcs)</p> <p>NB Overlay is available</p>
				<b>Total 2 marks</b>

20	(a)		$p^{15}$	1	B1 cao
	(b)	$8n^2 + 6n + n^2 - 4n$		2	M1 for expanding with at least 3 correct terms (must see for example, $8n^2$ and not just $2n \times 4n$ )(can assume that no sign in front of a number is a + if terms written in a list or table)
			$9n^2 + 2n$		A1 oe $2n + 9n^2$ or $n(9n + 2)$ or $n(2 + 9n)$
	(c)	e.g. $2x + 5 = 12 - 3x$ or $\frac{2}{3}x + \frac{5}{3} = 4 - x$ oe		3	M1 for removal of fraction <b>and</b> multiplying out RHS correctly by 3 <b>or</b> separating fraction (LHS) in an equation
		e.g. $2x + 3x = 12 - 5$ or $5x = 7$ or $5 - 12 = -3x - 2x$ or $-7 = -5x$ or $\frac{2}{3}x + x = 4 - \frac{5}{3}$ oe or $\frac{5}{3}x = \frac{7}{3}$ oe			M1 ft (dep on 4 terms) correctly rearranging their 4 term equation for terms in $x$ on one side of equation and number terms on the other
		<i>Working required</i>	$\frac{7}{5}$		A1 oe eg 1.4 or $1\frac{2}{5}$ dep on M2
					<b>Total 6 marks</b>

21	(a)		2 3 5 7	1	<p>B1</p> <p>All numbers must be present with no repeats and no other numbers.</p> <p>Numbers can be in any order</p> <p>Allow commas, colons, etc, between the numbers</p>
	(b)		3 7	1	<p>B1</p> <p>Both numbers must be present with no repeats and no other numbers.</p> <p>Numbers can be in any order</p> <p>Allow commas, colons, etc, between the numbers</p>
	(c)		2 4 5 6 8	1	<p>B1</p> <p>All numbers must be present with no repeats and no other numbers.</p> <p>Numbers can be in any order</p> <p>Allow commas, colons, etc, between the numbers</p>
					<b>Total 3 marks</b>



<b>22</b>	$\pi \times 70^2 \times 18$ oe or $\pi \times 0.7^2 \times 0.18$ oe		4	M1 for use of $\pi r^2 h$
	$88200\pi$ or $277\,088(.472)$ or $0.0882\pi$ or $\frac{441}{5000}\pi$ or $0.277(088472)$			A1 Allow $276\,948 - 277\,200$ or Allow $0.276\,948 - 0.277\,200$
	“ $277\,088(.472)$ ” $\div 1000$ ( $= 277.088\dots$ ) or $88200\pi \div 1000$ ( $= 88.2\pi$ or $\frac{441}{5}\pi$ ) “ $0.277(088472)$ ” $\times 1000$ ( $= 277.088\dots$ ) or $88200\pi \div 1000$ ( $= 88.2\pi$ or $\frac{441}{5}\pi$ )			M1  Allow a value for their volume which contains $\pi$ , <b>70</b> and <b>18</b> to be divided by 1000  Allow a value for their volume which contains $\pi$ , <b>0.7</b> and <b>0.18</b> to be multiplied by 1000
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	277		A1 awrt 277
				<b>Total 4 marks</b>

23	<p>B1 for  <math>2^2 \times 5^2</math> oe or <math>2 \times 2 \times 5 \times 5</math> oe or  <math>2^2 \times 7</math> oe or <math>2 \times 2 \times 7</math> oe or  <math>5^2 \times 7</math> oe or <math>5 \times 5 \times 7</math> oe or  <math>2^2 \times 5 \times 7</math> oe or <math>2 \times 2 \times 5 \times 7</math> oe or  <math>2 \times 5^2 \times 7</math> oe or <math>2 \times 5 \times 5 \times 7</math> oe or  <math>2^2 \times 5^2 \times 7 \times 11</math> or <math>2 \times 2 \times 5 \times 5 \times 7 \times 11</math> oe or  700 or  <math>2^p \times 5^q \times 7^r</math> where two of <math>p</math> or <math>q</math> or <math>r</math> are correct</p>	$2^2 \times 5^2 \times 7$	2	<p>B2 Allow <math>2 \times 2 \times 5 \times 5 \times 7</math>  Answers must be a product of prime factors</p> <p>Can be in any order (allow <math>2^2 \cdot 5^2 \cdot 7</math>)</p> <p>Do not allow 1 in the final answer</p> <p><math>2 \times 2 \times 5 \times 5 \times 7</math> in working space and  700 on answer line award B2  <math>2^2 \times 5^2 \times 7</math> in working space and 700 on  answer line award B2</p> <p>(B1 for <math>2^p \times 5^q \times 7^r</math> where two of <math>p</math> or <math>q</math> or  <math>r</math> are correct  <b>or</b>  one mistake in their product  (see working on the left for examples)  <b>or</b>  for 700)</p>
				<b>Total 2 marks</b>

<b>24</b>	$475 \times 0.16 (= 76)$ oe <b>or</b> $475 \times (1 - 0.16) (= 399)$ oe		4	M1 (working for shop A)
	$1 - 0.15 (= 0.85)$ <b>or</b> $x - 0.15x = 408$ <b>or</b> $100(\%) - 15(\%) (= 85(\%))$ <b>or</b> $\frac{408}{85} (= 4.8)$ oe			M1 (working for shop B)
	$408 \div "0.85" (= 480)$ <b>or</b> $408 \div "85" \times 100 (= 480)$ <b>or</b> $408 \times 100 \div "85" (= 480)$ oe <b>or</b> $"4.8" \times 100 (= 480)$ <b>or</b> $\frac{408}{85} \times 100 (= 480)$			M1 (working for shop B)
	<i>Working required</i>	<b>A</b> <b>and</b> 72 and 76 seen		A1 dep on M2 for <b>A</b> with correct working (72 and 76 seen)
				<b>Total 4 marks</b>

25	(a)(i)	$(x \pm 8)(x \pm 3)$ or $x(x-3) + 8(x-3)$ or $x(x+8) - 3(x+8)$		2	M1 for $(x \pm 8)(x \pm 3)$ or $(x+a)(x+b)$ where $ab = -24$ or $a + b = 5$ and, $a$ and $b$ are integers
		<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$(x+8)(x-3)$		A1 for $(x+8)(x-3)$ Allow any letter for $x$  Must be in the form $(x+a)(x+b)$ where $a$ and $b$ are integers
	(ii)		-8 and 3	1	B1 must fit from their answer in (a)(i) ft from their incorrect factors in the form $(x+a)(x+b)$ Award B0 for -8 and 3 if no marks scored in (a)(i)
	(b)	$3y - 7y > -10 - 5$ or $5 + 10 > 7y - 3y$		3	M1 allow use of = or condone incorrect inequality sign
		$-4y > -15$ or $15 > 4y$ or $y = \frac{15}{4}$ oe or			M1 allow use of = or condone incorrect inequality sign
		<i>Working required</i>	$y < \frac{15}{4}$		A1 dep on M1 oe eg $y < 3.75$ or $\frac{15}{4} > y$ or $3.75 > y$ Must have correct sign on answer line  NB Sight of correct answer in working space and just $(y =) \frac{15}{4}$ oe on answer line gains M2 only
					<b>Total 6 marks</b>

<b>26</b>	(a)		0.000 084	1	B1 cao
	(b)	$52 \times 10^{145}$ or $5.2 \times 10^n$ or $p \times 10^{146}$ where $1 \leq p < 10$		2	M1
		<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$5.2 \times 10^{146}$		A1
					<b>Total 3 marks</b>

27	eg $51^2 = (DE)^2 + 24^2$ oe <b>or</b> $2601 = (DE)^2 + 576$ oe <b>or</b> $(DE^2 =) 51^2 - 24^2 (= 2025)$ oe <b>or</b> $(DE^2 =) 2601 - 576 (= 2025)$ oe <b>or</b> $\cos(DFE) = \frac{24}{51}$ <b>or</b> $\sin(DEF) = \frac{24}{51}$		5	M1 for applying Pythagoras theorem correctly
	$(DE =) \sqrt{51^2 - 24^2} (= \sqrt{2025} = 45)$ <b>or</b> $(DE =) \sqrt{2601 - 576} (= \sqrt{2025} = 45)$ <b>or</b> $(DFE =) \cos^{-1}\left(\frac{24}{51}\right) (= 61.9\dots)$ <b>or</b> $(DEF =) \sin^{-1}\left(\frac{24}{51}\right) (= 28.0\dots)$			M1 for square rooting
	$\frac{\text{their } DE}{7.5} (= 6)$ oe <b>or</b> $\frac{7.5}{\text{their } DE} \left(= \frac{1}{6}\right)$ <b>or</b> $\frac{x}{24} = \frac{7.5}{\text{their } DE}$ oe <b>or</b> $\tan \text{"their } 61.9\dots" = \frac{7.5}{(x)}$ <b>or</b> $\tan \text{"their } 28.0\dots" = \frac{(x)}{7.5}$ <b>or</b> $\frac{(x)}{\sin(\text{their } 28.0)} = \frac{7.5}{\sin(\text{their } 61.9)}$ NB Their <i>ED</i> or their 61.9 or their 28.0 must be clearly identified Their 61.9.. or their 28.0.. cannot be used as lengths of the triangle Their 45 cannot be used as an angle of the triangle			M1 for a correct method to find the scale factor Allow correct use of sine rule/cosine rule/Pythagoras theorem Allow 0.17 or better for $\frac{1}{6}$ <b>Special case</b> Allow $(DE =) \sqrt{51^2 + 24^2}$ $(= \sqrt{3177} = 3\sqrt{353} = 56.3\dots)$ for “45” for this mark
	$24 \div \text{"6"} \text{ oe } 24 \times \frac{1}{6} \text{ or } 24 \times \text{"1.67"} \text{ or } (x =) \frac{7.5}{\text{their } ED} \times 24$ <b>or</b> $(x =) \frac{7.5}{\tan \text{"their } 61.9\dots"}$ oe <b>or</b> $(x =) 7.5 \times \tan \text{"their } 28.0\dots" \text{ oe}$ <b>or</b> $(x =) \frac{7.5}{\sin(\text{their } 61.9)} \times \sin(\text{their } 28.0) \text{ oe}$ <b>or</b> $51 \times \frac{1}{6} (= 8.5) \text{ and } (x =) \sqrt{8.5^2 - 7.5^2} (= \sqrt{16})$			M1 dep on previous M1 for a correct method to find $x$ or for finding $BC$ <b>and</b> using Pythagoras theorem to find $x$ Allow $24 \times \frac{7.5}{56(.3\dots)}$ <b>or</b> $24 \div \frac{56(.3\dots)}{7.5}$ for scale factor for this mark
	Working required	4		A1 dep on M2 The value of 4 must come from correct figures
				<b>Total 5 marks</b>

