



# Mark Scheme (Final)

## January 2026

International Advanced Level in Statistics S2

WST02/01

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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.

## EDEXCEL IAL MATHEMATICS

### General Instructions for Marking

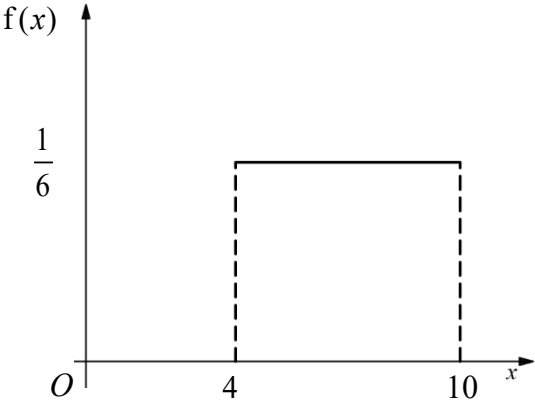
1. The total number of marks for the paper is 75.
2. The Edexcel Mathematics mark schemes use the following types of marks:
  - **M** marks: method marks are awarded for ‘knowing a method and attempting to apply it’, unless otherwise indicated.
  - **A** marks: Accuracy marks can only be awarded if the relevant method (M) marks have been earned.
  - **B** marks are unconditional accuracy marks (independent of M marks)
  - Marks should not be subdivided.

### 3. Abbreviations

These are some of the traditional marking abbreviations that will appear in the mark schemes.

- bod – benefit of doubt
  - ft – follow through
  - the symbol  $\surd$  will be used for correct ft
  - cao – correct answer only
  - cso - correct solution only. There must be no errors in this part of the question to obtain this mark
  - isw – ignore subsequent working
  - awrt – answers which round to
  - SC: special case
  - oe – or equivalent (and appropriate)
  - dep – dependent
  - indep – independent
  - dp decimal places
  - sf significant figures
  - \* The answer is printed on the paper
  - $\square$  The second mark is dependent on gaining the first mark
4. All A marks are ‘correct answer only’ (cao.), unless shown, for example, as A1 ft to indicate that previous wrong working is to be followed through. After a misread however, the subsequent A marks affected are treated as A ft, but manifestly absurd answers should never be awarded A marks.
  5. For misreading which does not alter the character of a question or materially simplify it, deduct two from any A or B marks gained, in that part of the question affected.
  6. If a candidate makes more than one attempt at any question:
    - If all but one attempt is crossed out, mark the attempt which is NOT crossed out.
    - If either all attempts are crossed out or none are crossed out, mark all the attempts and score the highest single attempt.
  7. Ignore wrong working or incorrect statements following a correct answer

Question Number	Scheme		Marks
<b>1(a)(i)</b>	e.g. A database of <b>all</b> the customers		B1
	<b>(ii)</b>	e.g. The customer(s)	B1
			<b>(2)</b>
<b>(b)</b>	e.g. It is cheaper		B1
			<b>(1)</b>
<b>(c)</b>	B(50, 0.35)		M1A1
			<b>(2)</b>
<b>(d)</b>	$[P(X > 20) =] 1 - P(X \leq 20) (= 1 - 0.8139)$		M1
	$= 0.1861$		<b>awrt 0.186</b>
			A1
			<b>(2)</b>
<b>Notes</b>			<b>Total 7</b>
<b>(a)(i)</b>	<b>B1</b>	for a suitable sampling frame e.g. a list / spreadsheet / register and indicating it contains <b>all</b> the customers who have the internet service. All can be implied but not a partial list.	
	<b>(ii)</b>	<b>B1</b>	for a suitable sampling units e.g. people who pay for the service, subscriber (s), customer (s). Do not allow customer (s) satisfaction o.e.
<b>(b)</b>	<b>B1</b>	for a suitable reason e.g. it is quicker, cheaper, easier to process	
<b>(c)</b>	<b>M1</b>	Binomial distribution or B(...) seen	
	<b>A1</b>	B(50, 0.35) or binomial stated with $n = 50, p = 0.35$	
<b>(d)</b>	<b>M1</b>	For $1 - P(X \leq 20)$ , may be implied by $1 - 0.8139$ or $P(X \geq 21)$	
	<b>A1</b>	awrt 0.186 (Calc: 0.186054...) (Correct answer 2/2)	

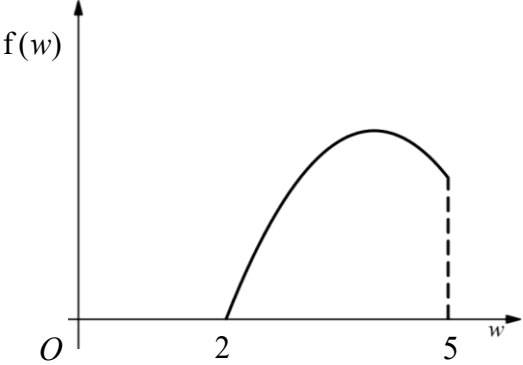
Question Number	Scheme	Marks
2(a)	$[F(10)] = k \times 6 = 1 \Rightarrow k = \frac{1}{6} *$	B1cso (1)
(b)	$[P(X = 5)] = 0$	B1 (1)
(c)	$[P(5 < X < 7)] = F(7) - F(5) \left( = \frac{1}{6}(3-1) \right)$ $= \frac{1}{3}$	M1 A1 (2)
(d)	$f(x) = \begin{cases} \frac{1}{6} & 4 \leq x \leq 10 \\ 0 & \text{otherwise} \end{cases}$	M1A1 (2)
(e)		M1A1ft (2)
(f)	$E(X) \left( = \frac{4+10}{2} \right) = 7$	B1 (1)
(g)	$[Var(X)] = \frac{(10-4)^2}{12} = 3$ or $[E(X^2)] = \int_{[4]}^{[10]} \frac{x^2}{6} dx$ or $[E(2X^2 - 1)] = \int_{[4]}^{[10]} \frac{2x^2 - 1}{6} dx$ $E(2X^2 - 1) = 2 \times ("3" + "7"^2) - 1$ or $2 \left[ \frac{x^3}{18} \right]_4^{10} - 1 = 2 \left( \frac{1000}{18} - \frac{64}{18} \right) - 1$ $= 103$ <span style="margin-left: 200px;"><math>= 103</math></span>	M1 M1 A1 (3)
<b>Notes</b>		<b>Total 12</b>
(a)	<p>cso for substituting <math>x = 10</math> into <math>F(x)</math>, setting equal to 1 and rearranging to achieve the given answer.</p> <p><b>B1*</b> Alternatively, substituting <math>x = 10</math> and <math>k = \frac{1}{6}</math>, and achieves an answer of 1 but must state a conclusion confirming that <math>k = \frac{1}{6}</math></p>	

<b>(b)</b>	<b>B1</b>	cao
<b>(c)</b>	<b>M1</b>	for sight or use of $F(7) - F(5)$
	<b>A1</b>	$\frac{1}{3}$ or exact equivalent. (Answer coming from incorrect working (e.g. substituting 6 and 4 o.e. is M0A0))
<b>(d)</b>	<b>M1</b>	for $f(x) = \frac{1}{6}$ with or without the interval
	<b>A1</b>	fully correct with both lines and correct intervals (o.e)
<b>(e)</b>	<b>M1</b>	for a horizontal line \ rectangle drawn in the first quadrant
	<b>A1ft</b>	fully correct with 4, 10 and "1/6" labelled (condone missing vertical lines at 4 and 10 and axes labels)
<b>(f)</b>	<b>B1</b>	cao
<b>(g)</b>	<b>M1</b>	attempts to find $\text{Var}(X)$ or attempts to integrate $x^2 \times f(x)$ . (Ignore limits and labelling) May be seen as part of $\int_{[4]}^{[10]} \frac{2x^2 - 1}{6} dx$ Condone omission of dx
	<b>M1</b>	for a full attempt to find $E(2X^2 - 1)$ (Implied by $2 \times ("52") - 1$ ). Follow through their $E(X^2)$ evaluated, even if labelled as $\text{Var}(X)$ .
	<b>A1</b>	Cao (Working must be seen)

Question Number	Scheme		Marks
3(a)(i)	$X \sim \text{Po}(5) \quad [[P(X \geq 4) (=1 - P(X \leq 3)) = 1 - 0.2650]$		M1
		$= 0.735$	awrt 0.735 A1
(ii)	"0.735" <sup>3</sup> = 0.397065...		M1A1
			(4)
(b)	$H_0: \lambda = 2.5 \quad H_1: \lambda > 2.5$		B1
			(1)
(c)	$X \sim \text{Po}(10)$ where $X$ is the number of detections in one hour		
	$P(X \leq 15) = 0.9513 \Rightarrow P(X \geq 16) = 0.0487$		M1A1
	Critical region $X \geq 16$		A1
		(3)	
(d)	13 is not in the critical region (so do not reject $H_0$ ) so insufficient evidence to suggest that the <u>mean rate</u> (o.e) of <u>detecting</u> (o.e) motion has <u>increased</u> (o.e).		B1ft
			(1)
<b>Notes</b>			<b>Total 9</b>
(a)(i)	<b>M1</b>	Sight or use of the correct Poisson distribution. May be implied by awrt 0.265	
	<b>A1</b>	awrt 0.735 Calc: 0.73497... (Correct answer 2/2)	
(ii)	<b>M1</b>	for attempting their $(a)(i)^3$ or ${}^3C_3(a)(i)^3(1-a(i))^0$	
	<b>A1</b>	awrt 0.397	
(b)	<b>B1</b>	correct hypotheses in terms of $\lambda$ or $\mu$ (may write 10 instead of 2.5)	
(c)	<b>M1</b>	for attempting to use Po(10). May be implied by awrt 0.9513, awrt 0.9730, awrt 0.0487, awrt 0.0270	
	<b>A1</b>	for finding $P(X \geq 16) =$ awrt 0.0487 (or a clear statement that probability is awrt 0.0487).	
	<b>A1</b>	for a correct critical region. Must be expressed as e.g. $X \geq 16$ (o.e.) and not a probability statement. Can use a different letter to $X$ and condone $CR \geq 16$	
(d)	<b>B1ft</b>	dep on a CR $X \geq a$ o.e. such that 13 is not in the critical region (condone a probability statement for a CR) For 13 is not in the critical region <b>and</b> a correct conclusion in context that there is insufficient evidence to suggest that the <u>mean rate</u> of <u>detections</u> has <u>increased</u> . (o.e). Withhold this mark if there are contradictory statements or incorrect comparisons.	

Question Number	Scheme		Marks
4(a)(i) (ii)	[P(X = 1)] = 0.3389...	awrt 0.339	B1
	[P(X ≤ 2)] = 0.8122	awrt 0.812	B1
			(2)
(b)	H <sub>0</sub> : p = 0.05 H <sub>1</sub> : p ≠ 0.05		B1
	Y ~ Po(7.5)		M1
	P(Y ≥ 13) = 1 – P(Y ≤ 12) or 1 – 0.9573		M1
	= 0.0426658...	awrt 0.0427	A1
	"0.0427" > 0.025 (so do not reject H <sub>0</sub> ) / 13 is not in the critical region. o.e		dM1
	Insufficient evidence to suggest that the <b>proportion</b> of patients with the eye <b>condition</b> has changed		A1ft
			(6)
	<b>Notes</b>		<b>Total 8</b>
(a)(i) (ii)	<b>B1</b>	awrt 0.339	
	<b>B1</b>	awrt 0.812	
(b)	<b>B1</b>	for correct hypotheses and attached to H <sub>0</sub> and H <sub>1</sub> in terms of p . Accept H <sub>0</sub> : λ = 7.5 , H <sub>1</sub> : λ ≠ 7.5	
	<b>M1</b>	for a correct Poisson distribution with λ = 7.5 . May be implied by awrt 0.957 or awrt 0.043	
	<b>M1</b>	P(Y ≥ 13) = 1 – P(Y ≤ 12) or 1 – 0.9573 or allow for CR: X ≥ 14 or CR: X ≤ 2 o.e	
	<b>A1</b>	awrt 0.0427 or allow for fully defined critical region of CR: X ≤ 2, X ≥ 14 o.e	
	<b>dM1</b>	dep on 2nd M1 for a correct non-contextual comparison ft on their “0.0427” or a comparison with their critical region	
	<b>A1ft</b>	<b>dependent on all previous method marks.</b> For a correct contextual conclusion using the bolded words. (o.e) Condone “the optician’s claim is incorrect” o.e	
	<b>SC</b>	if no approximation (use of B (150,0.05)) is used leading to 0.03851568... then maximum score B1M0M1A0dM1A0ft	
<b>SC</b>	if a normal approximation (N (7.5,7.125)) is used leading to awrt 0.0305 – awrt 0.0307 then maximum score B1M0M1A1dM1A0ft. 2 <sup>nd</sup> M1 is for working out z-value of 1.87 or better, 1 <sup>st</sup> A mark for awrt 0.0305 – awrt 0.0307, 3 <sup>rd</sup> M1 (dep) a correct comparison.		

Question Number	Scheme		Marks										
<b>5(a)</b>	All the possible combinations: <i>SSW, SSP, SWW(x2), SWP(x2), WWW, WWP</i>		M1A1										
			(2)										
<b>(b)</b>	{10,11,12,13}		M1A1										
			(2)										
<b>(c)</b>	$(P(SSW) =) \frac{3}{5} \times \frac{3}{5} \times \frac{1}{2}$ o.e. or $(P(WWP) =) \frac{2}{5} \times \frac{2}{5} \times \frac{1}{2}$ o.e.		B1										
	$(P(T = 11)) = 2 \times \frac{3}{5} \times \frac{2}{5} \times \frac{1}{2} + \frac{3}{5} \times \frac{3}{5} \times \frac{1}{2}$ or $(P(T = 12)) = 2 \times \frac{3}{5} \times \frac{2}{5} \times \frac{1}{2} + \frac{2}{5} \times \frac{2}{5} \times \frac{1}{2}$		M1										
	<table border="1"> <thead> <tr> <th><i>t</i></th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> </tr> </thead> <tbody> <tr> <td><math>P(T = t)</math></td> <td><math>\frac{9}{50} = 0.18</math></td> <td><math>\frac{21}{50} = 0.42</math></td> <td><math>\frac{8}{25} = 0.32</math></td> <td><math>\frac{2}{25} = 0.08</math></td> </tr> </tbody> </table>		<i>t</i>	10	11	12	13	$P(T = t)$	$\frac{9}{50} = 0.18$	$\frac{21}{50} = 0.42$	$\frac{8}{25} = 0.32$	$\frac{2}{25} = 0.08$	A1
	<i>t</i>	10	11	12	13								
$P(T = t)$	$\frac{9}{50} = 0.18$	$\frac{21}{50} = 0.42$	$\frac{8}{25} = 0.32$	$\frac{2}{25} = 0.08$									
		(3)											
<b>(d)</b>	{0, 1, 2}		B1										
	<table border="1"> <thead> <tr> <th><i>r</i></th> <th>0</th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <td><math>P(R = r)</math></td> <td><math>\frac{2}{25} = 0.08</math></td> <td><math>\frac{1}{2} = 0.5</math></td> <td><math>\frac{21}{50} = 0.42</math></td> </tr> </tbody> </table>		<i>r</i>	0	1	2	$P(R = r)$	$\frac{2}{25} = 0.08$	$\frac{1}{2} = 0.5$	$\frac{21}{50} = 0.42$	M1A1		
<i>r</i>	0	1	2										
$P(R = r)$	$\frac{2}{25} = 0.08$	$\frac{1}{2} = 0.5$	$\frac{21}{50} = 0.42$										
			(3)										
<b>Notes</b>			<b>Total 10</b>										
<b>(a)</b>	<b>M1</b>	lists at least 3 valid combinations (do not be concerned if there are any extras). Ignore any reference to <i>A</i> and <i>B</i> in their combinations, e.g. the use of subscripts. Allow in words.											
	<b>A1</b>	lists all 6 possible combinations (condone permutations) with no additional incorrect ones.											
<b>(b)</b>	<b>M1</b>	for at least 2 correct values (ignore any incorrect extra values)											
	<b>A1</b>	for all four values and no others (condone if not ordered). Must be seen in b.											
<b>(c)</b>	<b>B1</b>	for finding the probability of the event <i>SSW</i> or the event <i>WWP</i> . Implied by $\frac{9}{50}$ o.e. or $\frac{2}{25}$ o.e. May be seen in the table.											
	<b>M1</b>	for an attempt at $P(T = 11)$ or $P(T = 12)$ . Implied by $\frac{21}{50}$ o.e. or $\frac{8}{25}$ o.e. May be seen in the table											
	<b>A1</b>	for a fully correct table, or all values of <i>T</i> correctly paired with their probabilities											
<b>(d)</b>	<b>B1</b>	for all three values and no others (may be seen in a table) (If listed condone if not ordered)											
	<b>M1</b>	for at least one correct value for <i>r</i> with a correct probability or calculation. Correctly paired in table is fine if not explicitly written down.											
	<b>A1</b>	for a fully correct table, or all values of <i>R</i> correctly paired with their probabilities											

Question Number	Scheme	Marks
6(a)		M1 A1  <b>(2)</b>
(b)	Mode = 4	B1 <b>(1)</b>
(c)	$E(W) = \frac{1}{9} \int_2^5 w(6-w)(w-2) dw$	M1
	$E(W) = \frac{1}{9} \int_2^5 (-w^3 + 8w^2 - 12w) dw = \frac{1}{9} \left[ -\frac{w^4}{4} + \frac{8w^3}{3} - 6w^2 \right]_2^5$	M1
	$= \frac{1}{9} \left( \left( -\frac{5^4}{4} + \frac{8 \times 5^3}{3} - 6 \times 5^2 \right) - \left( -\frac{2^4}{4} + \frac{8 \times 2^3}{3} - 6 \times 2^2 \right) \right)$	dM1
	= 3.75 (kg)	A1 <b>(4)</b>
(d)	Standard deviation = $\sqrt{\frac{73}{5} - \left( \frac{15}{4} \right)^2}$	M1
	$= \frac{\sqrt{215}}{20} = 0.73314\dots$ (kg)	awrt 0.733 A1
		<b>(2)</b>
(e)	$\frac{1}{9} \int (-w^2 + 8w - 12) dw = \frac{1}{9} \left( -\frac{w^3}{3} + 4w^2 - 12w \right)$	M1A1
	$F(3.7) = \frac{1}{9} \int_2^{3.7} (-w^2 + 8w - 12) dw = 0.460\dots (< 0.5)$	M1
	$F(3.8) = \frac{1}{9} \int_2^{3.8} (-w^2 + 8w - 12) dw = 0.504 (> 0.5)$	M1
	3.7 and 3.8 give values either side of 0.5 hence median lies between 3.7 and 3.8	A1 <b>(5)</b>
(f)	$X \sim N(30, 30)$	B1
	$P\left( Z < \frac{19.5 - "30"}{\sqrt{"30"}} \right) = P(Z < -1.917\dots)$	M1M1 A1ft
	= awrt 0.0274 or awrt 0.0276	A1
		<b>(5)</b>
		<b>Total 19</b>

		Notes
(a)	M1	a negative <b>quadratic</b> shape which is in the first quadrant
	A1	correct graph with 2 and 5 labelled. Do not be concerned by the value of the maximum labelled. (condone missing axes labels\ missing vertical line at $w=5$ ) (If sketch shown for $w<2$ and $w>5$ , must have $f(w) = 0$ )
(b)	B1	Cao (accept $w = 4$ )
(c)	M1	for attempting $\int wf(w) dw$ . Does not require limits. Condone omission of $dw$ or use of another variable.
	M1	for an attempt at integration of $wf(w)$ with correct limits. Look for $w^n \rightarrow w^{n+1}$ for at least one term
	dM1	dependent on both previous method marks. For correct use of limits.
	A1	3.75 (kg) o.e. (Must see evidence of all previous M marks)
(d)	M1	for a correct standard deviation calculation using their part (c) including square root. May see $\sqrt{\frac{43}{80}}$ or $\sqrt{0.5375}$ or $\sqrt{\frac{215}{400}}$ (o.e)
	A1	awrt 0.733 (kg)
(e)	M1	for an attempt at integration of $f(x)$ . Look for $w^n \rightarrow w^{n+1}$ for at least one term Ignore limits. Condone missing 1/9 for this mark
	A1	correct integrated expression, including the 1/9 with or without $+ c$ . Limits do not need to be substituted in.
	dM1	dependent on the 1 <sup>st</sup> M1. For one correct evaluation using 2 and 3.7 <b>or</b> 2 and 3.8 (Allow equivalent substitution into re-arrangements)
	dM1	dependent on the previous method marks. For two correct evaluations using 2 and 3.7 and 2 and 3.8 (Allow equivalent substitution into re-arrangements)
	A1	correct calculations, reasoning and conclusion (e.g. comparing awrt = 0.46 or awrt 0.504 with 0.5 \ median) o.e
	ALT	<b>Finding the value of <math>m</math></b>
	M1 A1	See scheme
	dM1	dependent on the 1 <sup>st</sup> M1. Uses $\frac{1}{9} \int_2^m (-w^2 + 8w - 12) dw = 0.5$ must see limits.
	dM1	dependent on the previous method marks. Substituting <b>both</b> limits to obtain a cubic $am^3 + bm^2 + cm + d = 0$ where a, b, c and d are constants and solves by any method (including calculator) to obtain $m = \dots$ , for at least one root. Allow substitution of 3.7 and 3.8 into the cubic expression.
	A1	All 3 correct roots seen <b>and</b> indicates awrt 3.79 <b>and</b> give a reason for rejecting the other two roots (other roots awrt 0.65 (condone 0.64) awrt 7.6 (condone 7.5)) Allow substitution of 3.7 and 3.8 into the cubic expression and identifying a sign change.
(f)	B1	for a correct normal approximation to a Poisson
	M1	for attempting to use a continuity correction (19.5 or 20.5)
	M1	for attempting to standardise (They can achieve this with 19.5, 20 or 20.5)
	A1ft	Dependent on both previous method marks for correct standardisation following through their mean and variance
	A1	awrt 0.0274 (Calc: 0.027617...) or awrt 0.0276 <b>NB Use of Poisson distribution gives 0.02187... and scores 0 marks.</b>

Question Number	Scheme		Marks
7(a)	$X \sim B(30, 0.45) \Rightarrow P(X > 16) = 1 - P(X \leq 16) = 1 - 0.8644$		M1
	$= 0.1356$ <span style="float: right;"><b>awrt 0.136</b></span>		A1
			<b>(2)</b>
(b)	$Y \sim N(81, 44.55)$ where $Y$ is the number of trains which arrive no more than 2 minutes late		M1A1
	$P\left(Y > \frac{k + 0.5 - "81"}{\sqrt{"44.55"}}\right) < 0.0427$		M1 M1 A1ft
	$\frac{k + 0.5 - "81"}{\sqrt{"44.55"}} > 1.72$		M1B1
	$k > 91.98... \Rightarrow k = 92$		A1
			<b>(8)</b>
<b>Notes</b>			<b>Total 10</b>
(a)	<b>M1</b>	for use of a binomial with $n = 30$ , $p = 0.45$ (you may need to check probabilities if no distribution is given.) (e.g. awrt 0.864, awrt 0.769, awrt 0.231, awrt 0.645, awrt 0.355)	
	<b>A1</b>	awrt 0.136 (Correct answer scores 2/2)	
(b)	<b>M1</b>	for attempting the <b>correct</b> binomial to normal approximation. Score for sight of $N(81, \dots)$ o.e.	
	<b>A1</b>	correct normal distribution $N(81, 44.55)$	
	<b>M1</b>	for attempting a continuity correction ( <b><math>k + 0.5</math> or <math>k - 0.5</math></b> )	
	<b>M1</b>	for attempting to standardise with their "81" and their $\sqrt{"44.55"}$ or awrt 6.67, with or without a continuity correction.	
	<b>A1ft</b>	dependent on both of the previous method marks. For a correct standardisation using <b><math>k + 0.5</math></b> but ft their "81" and their $\sqrt{"44.55"}$ or awrt 6.67	
	<b>M1</b>	for setting their standardised expression more than a $z$ -value $1 <  z  < 3$ (Condone equals)	
	<b>B1</b>	correct $z$ -value awrt 1.72 (Allow -1.72 if consistent with their standardisation)	
	<b>A1</b>	dependent on all the previous marks for 92	
	<b>SC</b>	if no continuity correction is used leading to 92.48027526... then maximum score is M1A1M0M1A0ftM1B1A0	
<b>SC</b>	if the incorrect continuity correction ( $k - 0.5$ ) is used leading to 92.9802... then maximum score is M1A1M1M1A0ftM1B1A0		

