

# A Level Statistics

## AQA Past Exam Questions

### *Solutions*

TOPIC: Cor

The calculator can be used to find the value of the PMCC and SRCC for all questions, you do not need to calculate from scratch using the formulae. Because of this, some questions have a lot of marks available for calculating the value of  $r$  so this may not be representative of the marks available in the new course

ents

Candidates may use any calculator allowed by Pearson regulations. Calculators must not have retrievable mathematical formulae stored in them.

#### Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B). Coloured pencils and highlighter pens must not be used.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions and ensure that your answers to parts of questions are clearly labelled.
- Answer the questions **on paper**
- You should show sufficient working to make your methods clear. Answers without working may not gain full credit.
- Unless otherwise stated, statistical tests should be carried out at the 5% significance level.
- When a calculator is used, the answer should be given to three significant figures unless otherwise stated.

#### Information

- **You may use the** booklet 'Statistical Formulae and Tables'
- There are **8** questions in this question paper. The total mark for this paper is **165**
- The marks for **each** question are shown in brackets – use this as a guide as to how much time to spend on each question.

#### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.
- If you change your mind about an answer, cross it out and put your new answer and any working underneath.
- Check your answers if you have time at the end.

## AQA\_JUNE\_2012\_2

2				
(a)	Probably correct	B1		CAO; accept minimum of PC or Pc or pC or pc
(b)	Definitely incorrect	B1		CAO; accept minimum of DI or Di or dI or di
(c)	Probably incorrect	B1	3	CAO; accept minimum of PI or Pi or pI or pi
<b>Notes:</b> Ignore reasoning in all parts, unless it includes 2 of the 4 statements in which case $\Rightarrow$ B0 If answers not labelled, then assume above order				Definitely wrong, etc $\Rightarrow$ B0 Likely correct, etc $\Rightarrow$ B0

## AQA\_JAN\_2013\_4

4(a)				
(i)	$r = \underline{-0.326 \text{ to } -0.325}$ $r = \underline{-0.33 \text{ to } -0.32}$ $r = \underline{-0.4 \text{ to } -0.2}$ $r = \underline{0.2 \text{ to } 0.4}$	B3 (B2) (B1) (B1)		AFWF AFWF AFWF AFWF (−0.32569)
	Attempt at $\sum x$ $\sum x^2$ $\sum y$ $\sum y^2$ & $\sum xy$ <b>or</b> Attempt at $S_{xx}$ $S_{yy}$ & $S_{xy}$ Attempt at substitution into <b>correct</b> corresponding formula for $r$ $r = \underline{-0.326 \text{ to } -0.325}$	(M1)  (m1) (A1)	3	756 50004 738 48200 & <b>45652</b> (all 5 attempted)  2376 2813 & <b>−842</b> (all 3 attempted)  AFWF
(ii)	<b>Some/little/slight/(fairly/quite) weak/ (fairly/quite) moderate</b>  <b>negative (linear) correlation/relationship/ association/link (but not 'trend')</b>  between  <b>marks/percentages</b> in the two examination papers	Bdep1   B1	2	Dependent on $-0.4 \leq r \leq -0.2$ OE; must <b>qualify strength</b> and <b>state negative</b> Ignore extra words unless contradict Bdep0 for 'low', 'small', 'poor', 'unlikely', 'medium', 'average', or adjective 'very'  Context; providing $-1 < r < 1$

## AQA\_JUNE\_2012\_1

<b>I</b>	<b>(a)</b>	$r = \frac{S_{xy}}{\sqrt{S_{xx} \times S_{yy}}} = \frac{-0.410}{\sqrt{2.030 \times 1.498}} = \underline{\underline{-0.235}}$	M1		Correct substitution into <b>correct</b> formula May be implied by a <b>correct</b> answer
			A1	2	AWRT (−0.235115)
	<b>(b)</b>	<b>Some / (very) weak / (very) little / (very) slight negative correlation/relationship/association/link</b>  between <b>width and thickness</b> of lengths of steel	Adep1		Dependent on <b>−0.235 or −0.24</b> OE; must qualify strength <b>and</b> state negative Ignore extra words unless contradict Not 'no', 'low', 'small', 'unlikely' or 'trend'
	<b>SC</b>	$r = (+)0.235 \Rightarrow$ M1 A0 Adep0 B1 max	B1	2	Context; do <b>not</b> allow 'cms' or 'mms'

## AQA\_JAN\_2008\_2

	<b>2(a)</b>	$r = \frac{416.3}{\sqrt{1280.55 \times 281.8}} =$  0.69 to 0.7(0)	M1		Allow no $\sqrt{\phantom{x}}$
			A1	2	AWFW (0.693) (0.00115)
	<b>(b)</b>	<b>(Quite or fairly) weak / some / moderate (quite or fairly) strong positive correlation (relationship / association)</b>  between  <b>head &amp; body length and tail length</b>  <i>Ignore subsequent alternative comments only if A1 B1 already scored</i>  <b>OR</b>  <b>Some</b> evidence that mice with large head & body lengths also have long tails	A1		OE; must qualify strength and indicate positive A0 for poor / reasonable / average / medium / good A0 for very weak / very strong etc
			B1	2	Context; accept 'body and tail' or even 'head and tail'
	<b>(c)</b>	0.69 to 0.7(0) <b>OR</b> Answer to (a)	(A1) (B1)		OE; must qualify strength and indicate positive in context
	<b>(d)</b>	Existence of: <b>Non-linear</b> relationship <b>Outliers</b> <b>More than one</b> relationship  Sensible related sketch  SC: Check on calculation $\Rightarrow$ B1 B0	B1 $\checkmark$	1	$0 < r < 1$
			B1		Any one; OE Not reasons identifiable from context (eg spurious)
			B1	2	

1(a)(i)	Mean = <u>62.2 to 62.3</u>	B1		AWFW (62.25)
	SD = <u>17.4 to 17.6 or 16.7 to 16.9</u>	B1	2	AWFW (17.519 or 16.774)
(ii)	Mean = <u>16.77 to 16.84</u>	BF1		AWFW (16.806) F on (a)(i) only providing <b>45 &lt; mean &lt; 65</b>
	SD = <u>9.66 to 9.78 or 9.27 to 9.39</u>	BF2	3	AWFW (9.733 or 9.319) F on (a)(i) only providing <b>10 &lt; SD &lt; 20</b>
(b)	$r_{xy} = \underline{0.997}$	B1		CAO Award on value only; ignore any explanation or working $r_{xy} = r_{uv}$ with no value stated $\Rightarrow$ B0
	<b><math>r</math> not affected by change(s) in/different units</b>  <b>or</b>  <b><math>r</math> not affected by linear scaling</b>  <b>or</b>  <b>Scaling/coding/transformation/change/conversion to <math>u</math> and <math>v</math> is linear</b>			Accept 'Formula' or 'It' for $r$ and reference to ' <b>linear</b> ' is <b>not</b> necessary
		B1	2	Accept 'Formula' or 'It' for $r$ but reference to ' <b>linear</b> ' is necessary  OE; but reference to ' <b>linear</b> ' is necessary

AQA\_JUNE\_2017\_5

5 (a)(i)	$r = \underline{-0.254 \text{ to } -0.255}$ $r = \underline{-0.25 \text{ to } -0.26}$ $r = \underline{-0.2 \text{ to } -0.3}$	B3 (B2) (B1)		AWFW AWFW AWFW (-0.25467)
	Attempt at $\sum x$ $\sum x^2$ $\sum y$ $\sum y^2$ & $\sum xy$ or Attempt at $S_{xx}$ $S_{yy}$ & $S_{xy}$  Attempt at substitution into <b>correct</b> corresponding formula for $r$ $r = \underline{-0.254 \text{ to } -0.255}$	(M1)  (m1) (A1)		552 27579.6 139.2 1658.22 & <b>6324.64</b> (all 5 attempted) 2187.6 43.5 & <b>-78.56</b> (all 3 attempted)  AWWF
			<b>3</b>	
(ii)	<b>Weak/little negative (linear) correlation</b>	Bdep1		Dependent on $-0.3 \leq r \leq -0.2$
Notes	1 Statements <b>must</b> include the words “weak or little <b>and</b> negative” <b>together with</b> “correlation” or “association” or “relationship”; ignore additional comments unless clearly contradictory 2 Use of the following additional terms (in conjunction with weak or little); “fairly or quite or very” $\Rightarrow$ Bdep1 3 Use of any of the following terms (even in conjunction with weak or little): “low or small or slight or poor or some or mild or reasonably or relatively or pretty” $\Rightarrow$ Bdep0			
	between			
	(actual) <b>fuel consumption</b> and <b>mileage mark-up</b> of new <b>CARS</b>	B1		Context; providing $-1 < r < 1$
Notes	1 “As fuel consumption of cars increases so does mileage mark-up” (OE) $\Rightarrow$ Bdep0 B1 2 “As fuel consumption/x increases so does mileage mark-up/y” (OE) $\Rightarrow$ Bdep0 B0			
			<b>2</b>	
(b)(i)	$r = \frac{80.56}{\sqrt{916.8 \times 15.46}} = \underline{0.676 \text{ to } 0.677}$	M1 A1	<b>2</b>	AWFW (0.67667)
(ii)	<u>For petrol-engine cars or A1 to F1:</u> <b>moderate or some positive correlation</b> between (actual) <b>fuel consumption</b> and <b>mileage mark-up</b> of new cars  <u>For diesel-engine cars or A2 to F2:</u> <b>Strong negative correlation</b> between (actual) <b>fuel consumption</b> and <b>mileage mark-up</b> of new cars	B1 Bdep1  B1  (B1) B1  (B1)		Clear <b>consistent</b> distinction Dependent on $0.6 \leq r \leq 0.7$  Context; (providing $-1 < r < 1$ )  Only if not scored above for petrol-engine cars  Only if not scored above for petrol-engine cars
Notes	1 Only accept “moderate or some and strong” with no additional terms 2 Only accept “positive (linear) correlation” and “negative (linear) correlation”			
			<b>4</b>	

AQA\_JAN\_2007\_3

3(a)	$0.5 \leq \text{Value} \leq 0.95$ Positive value $< 1$ (and $> 0$ )	B2 (B1)		Value is actually 0.8
(b)	$-0.2 \leq \text{Value} \leq +0.2$	B1		Value is actually 0.0
(c)	$-0.95 \leq \text{Value} \leq -0.5$ Negative value $> -1$ (and $< 0$ )	B2 (B1)	5	Value is actually -0.7

1(a)	$r = -0.526$ to $-0.525$	B3		AWFW
	or			
	$r = -0.53$ to $-0.52$	(B2)		AWFW; ignore sign
	or			
	$r = -0.6$ to $-0.4$	(B1)		AWFW; ignore sign
	OR			
	Attempt at $\sum x$ , $\sum x^2$ , $\sum y$ , $\sum y^2$ and $\sum xy$	(M1)		260, 6970, 143, 2083 and 3671
	or			
	Attempt at $S_{xx}$ , $S_{yy}$ and $S_{xy}$			210, 38.1 and $-47$
	Attempt at a correct formula for $r$	(m1)		
(b)	$r = -0.526$ to $-0.525$	(A1)	3	AWFW
	Weak/some/moderate negative correlation (relationship/association)	B1		OE; must qualify strength and indicate negative B0 for strong/poor/reasonable/average B0 if $r > 0$ or $r < -1$ B0 if contradictory statements
	between			
	length and (maximum) diameter	B1		Context
	Ignore subsequent comments (as below) only if B1 B1 already scored			
	OR			
	Some evidence that large lengths are associated with small diameters	(B1) (B1)		OE; must qualify strength and indicate negative
	OR			
	Longer melons tend to have smaller diameters / be thinner	(B1) (B1)	2	OE; must qualify strength and indicate negative

<b>1(a)(i)</b>	$r = 0.6$ to $0.98$	B1		AWFW ( $\approx 0.8$ ) If answers are not labelled, assume order is (a)(i) then (a)(ii)
<b>(ii)</b>	$r = -0.5$ to $-0.02$ Accept answers as ranges if and only if contained entirely within given ranges	B1	2	AWFW ( $\approx -0.3$ ) Eg: (a)(i) $0.7$ to $0.9 \Rightarrow$ B1 (a)(ii) $-0.6$ to $-0.4 \Rightarrow$ B0
<b>(b)(i)</b>	$r = 0.757$ $r = 0.75$ to $0.77$ $r = 0.65$ to $0.85$ <b>or</b> Attempt at $\sum x$ $\sum x^2$ $\sum y$ $\sum y^2$ and $\sum xy$ <b>or</b> Attempt at $S_{xx}$ $S_{yy}$ and $S_{xy}$ Attempt at substitution into correct corresponding formula for $r$ $r = 0.757$	B3 (B2) (B1) (M1)  (m1) (A1)	3	AWRT ( $0.75708$ ) AWFW AWFW  271.5 6142.97 1911.9 304650.01 and 43259.17 (all 5 attempted)  0.2825 36.5425 and 2.4325 (all 3 attempted)
<b>(ii)</b>	Strong/fairly strong/moderate positive (linear) correlation/relationship/association/link (but not 'trend')  between  Circumference/size and weight of (cricket) balls	Bdep1   B1	   2	Dependent on $0.65 < r < 0.85$ Or equivalent; must qualify strength and indicate positive Bdep0 for very strong/high/average/medium/some etc.  Context; providing $0 < r < 1$

2 (a)(i)	$r = 0.022$ to $0.023$	B3		AWFW	(0.022557)
	$r = 0.02$ to $0.03$	(B2)		AWFW	
	$r = -0.1$ to $0.1$	(B1)		AWFW	
	<b>OR</b> Attempt at $\sum x$ $\sum x^2$ $\sum y$ $\sum y^2$ & $\sum xy$			118.8 1619.36 31.5 114.43 & 416.13 (all 5 attempted)	
	<b>or</b> Attempt at $S_{xx}$ $S_{yy}$ & $S_{xy}$	(M1)		51.2 4.18 & 0.33 (all 3 attempted)	
(ii)	Attempt at <b>correct</b> formula for $r$ $r = 0.022$ to $0.023$	(m1) (A1)	3	AWFW	
	(Almost/virtually) <b>no/zero</b> (linear) <b>correlation</b> (relationship/association/link)	B1		Or equivalent qualification of <b>NO</b> strength; do not follow-through from (i) B0 for very weak/weak/some/ little/slight/positive/hardly any/etc unless correct qualification also stated	
	between <b>length</b> and (maximum) <b>diameter</b> of carrots	B1	2	Context; providing $-1 < r < 1$	
(b)	<b>Unlikely</b> /wrong/incorrect/invalid	B1		Or equivalent	
	Would expect a <b>positive value</b> <b>or</b> Would expect <b>weight to increase with</b> <b>length</b> <b>or</b> Would imply <b>shorter carrots are heavier</b>	B1		Or equivalent reason	
			2		



<b>3</b> <b>(a)(i)</b>	$r = \underline{\underline{0.748}}$ $r = \underline{\underline{0.74 \text{ to } 0.76}}$ $r = \underline{\underline{0.7 \text{ to } 0.8}}$	B3 (B2) (B1)		AWRT (0.74802) AWFW AWFW
	Attempt at $\sum x \sum x^2 \sum y \sum y^2 \& \sum xy$ <b>or</b> Attempt at $S_{xx} S_{yy} \& S_{xy}$ Attempt at substitution into correct corresponding formula for $r$ $r = \underline{\underline{0.748}}$	(M1)  (m1) (A1)	<b>3</b>	364 10916 406 13688 & <b>11803</b> (all 5 attempted)  1452 1914 & <b>1247</b> (all 3 attempted)  AWRT
<b>(ii)</b>	<b>Moderate/(fairly/quite) strong positive</b> (linear) correlation between <b>marks</b> on (the two) papers	Bdep1  B1	<b>2</b>	Dependent on $0.7 \leq r \leq 0.8$ OE; must <b>qualify strength</b> and state <b>positive</b>  OE; providing $-1 < r < +1$
<b>Notes</b>	1 Only accept phrases stated; ignore additional comments unless contradictory 2 Use of: "very/extremely/relatively strong or high or big or good or some or medium or average" $\Rightarrow$ Bdep0 3 Accept "relationship/association/link" but not "trend" instead of "correlation" 4 Do <b>not</b> accept "between papers" without further reference to marks			
<b>(b)(i)</b>	Group U: $r = \frac{34.57}{\sqrt{279.71 \times 112.86}}$ $= \underline{\underline{0.19 \text{ to } 0.2}}$	M1  A1	<b>2</b>	Correct <b>numerical</b> form; can be implied by a <b>correct</b> answer  AFWW (0.19457)
<b>(ii)</b>	<u>Group T</u> <b>Some/(fairly/quite/very) weak/little/slight/</b> (almost) <b>no/hardly any</b> (positive) correlation  <u>Group U</u> <b>Some/(fairly/quite/very) weak/little/slight/</b> (almost) <b>no/hardly any</b> (positive) correlation	B1  Bdep1	<b>2</b>	OE; must <b>qualify strength</b>  Dependent on $0.19 \leq r_U \leq 0.2$ OE; must <b>qualify strength</b>
<b>Notes</b>	1 Only accept phrases listed; ignore additional comments unless contradictory 2 Use of: "low or small or poor or bad or unlikely or relatively" $\Rightarrow$ B0 3 Accept "relationship/association/link" but not "trend" instead of "correlation" 4 "For each group" $\Rightarrow$ B1 Bdep1      5 "For both groups" $\Rightarrow$ Bdep2      6 "No reference to groups (OE)" $\Rightarrow$ B0			
<b>SC</b>	1 "Correlation in (a)(ii) is spurious (OE)" $\Rightarrow$ B1			
<b>(iii)</b>	(Both mean) <b>marks</b> for Group T are (much) <b>larger</b> than those for Group U so extra <b>tuition</b> appears beneficial/effective	B1  Bdep1	<b>2</b>	OE  Ignore comments about $r_T$ and $r_U$ OE; dependent on B1
<b>SC</b>	1 "Group T candidates may have been more motivated so would have performed better even without extra tuition (OE)" $\Rightarrow$ B0 B1			

7				
(a)	<p><b>Ryan:</b> Value indicates that as <b>volume increases</b> then <b>weight decreases</b></p> <p><b>Sunil:</b> Value indicates <b>no correlation/relationship/association/link</b> between <b>volume and weight</b></p> <p><b>SC:</b> If B0 B0: Would expect <b>weight</b> to <b>increase</b> with <b>volume</b> <b>or</b> Would expect <b>strong(er) positive</b> correlation between <b>weight</b> and <b>volume</b></p>	B1		Or equivalent in context
		B1	2	Or equivalent in context
		(B1)		Or equivalent in context
(b)	<p><b>Ryan &amp; Sunil:</b> <math>r</math> is not affected by units/(linear) scaling</p> <p><b>Tim:</b> <math>r</math> is not affected by sample size <b>or</b> <math>2 \times 0.612 &gt; 1 \Rightarrow</math> impossibility</p>	B1		Or equivalent
		B1	2	Either; or equivalent
(c)				
(i)	<p><math>r = 0.541</math> to <math>0.543</math>  <math>r = 0.54</math> to <math>0.55</math>  <math>r = 0.5</math> to <math>0.6</math></p> <p><b>OR</b></p> <p>Attempt at <math>\sum v</math> <math>\sum v^2</math> <math>\sum w</math> <math>\sum w^2</math> &amp; <math>\sum vw</math>  <b>or</b>  Attempt at <math>S_{vw}</math> <math>S_{ww}</math> &amp; <math>S_{vv}</math>  Attempt at substitution into <b>correct</b> corresponding formula for <math>r</math>  <math>r = 0.541</math> to <math>0.543</math></p>	<p>B3 (B2) (B1)</p> <p>(M1)</p> <p>(m1)</p> <p>(A1)</p>	3	<p>AWFW (0.54186)  AWFW  AWFW</p> <p>216 6633.16 136 2376.84 &amp; <b>3795.5</b> (all 5 attempted)  Accept notation of <math>x</math> and <math>y</math>  801.16 64.84 &amp; <b>123.5</b>  (all 3 attempted)</p> <p>AWFW</p>
(ii)	<p>(Quite or fairly) <b>weak/some/moderate positive</b> (linear) <b>correlation/relationship/association/link</b> (<i>but not 'trend'</i>) between <b>volumes</b> and <b>weights</b> of suitcases</p>	<p>Bdep1</p> <p>B1</p>	2	<p>Dependent on <math>0.5 \leq r \leq 0.6</math>  Or equivalent; must <b>qualify strength</b> and <b>state positive</b>  Bdep0 for very strong/strong/high/good/average/medium/reasonable/poor/very weak/little/etc</p> <p>Context; providing <math>0 &lt; r &lt; 1</math></p>

1 (a)	$r = \underline{\underline{0.608}}$ $= \underline{\underline{0.6 \text{ to } 0.62}}$ $= \underline{\underline{0.5 \text{ to } 0.7}}$	B3 (B2) (B1)	3	AWRT AWFW AWFW (0.60810)
	Attempt at $\sum x$ $\sum x^2$ $\sum y$ $\sum y^2$ & $\sum xy$ or Attempt at $S_{xx}$ $S_{yy}$ & $S_{xy}$	(M1)		20.25 41.0455 11.30 12.7862 & <b>22.8983</b> (all 5 attempted) 0.03925 0.0172 & <b>0.0158</b> (all 3 attempted)
	Attempt at substitution into <b>correct</b> corresponding formula for $r$ $r = \underline{\underline{0.608}}$	(m1) (A1)		AWRT
(b)	<b>Some/moderate positive</b> (linear) <b>correlation</b> /relationship/association	Bdep1		Dependent on $0.5 \leq r \leq 0.7$ Must <b>qualify strength</b> and <b>state positive</b>
Notes	1 Only accept phrase stated; ignore additional comments unless contradictory 2 Any mention of “strong or weak” $\Rightarrow$ Bdep0 3 Use of: “quite/fairly/relatively/reasonably moderate” $\Rightarrow$ Bdep0 4 Use of: “high or big or good or low or small or poor or medium or average” $\Rightarrow$ Bdep0			
Notes	between  <b>trunk and tail lengths</b> of male African elephants	B1	2	Context; providing $-1 < r < 1$
	1 “As trunk lengths of elephants increase so do tail lengths” (OE) Bdep0 B1 2 “As trunks/x increase so do lengths/y” (OE) Bdep0 B0			

AQA\_JUNE\_2010\_1

<b>1(a)</b>	$r = 0.915$	B3		AWRT (0.91504)
	$r = 0.91$ to $0.92$ $r = 0.88$ to $0.95$	(B2) (B1)		AWFW AWFW
	<b>OR</b> Attempt at $\sum x$ $\sum x^2$ $\sum y$ $\sum y^2$ and $\sum xy$ <b>or</b> Attempt at $S_{xx}$ $S_{yy}$ and $S_{xy}$	(M1)		12510 15835890 1180 146616 and <b>1510062</b> (all 5 attempted)
	Attempt at substitution into <b>correct</b> corresponding formula for $r$ $r = 0.915$	(m1) (A1)	3	185880 7376 and <b>33882</b> (all 3 attempted)  AWRT
<b>(b)</b>	<b>Very strong / strong / fairly strong positive (linear) correlation / relationship / association / link (but not 'trend')</b>  between	B1dep		Dependent on $0.88 < r < 0.95$ Or equivalent; must qualify strength and indicate positive B0dep for (almost) perfect / high / average / medium / some / etc
	<b>weight and (engine) power/bhp of (hatchback) cars</b>  <b>Examples:</b> The more weight/heavier the more/greater power $\Rightarrow$ B0dep B1 Strong correlation and as weight/kg increases so does engine power / bhp $\Rightarrow$ B0dep B1	B1	2	Context; providing $0 < r < 1$  No mention of strength  Mention of strength but implied suggestion of positive not sufficient

AQA\_JUNE\_2018\_1

<b>1(a)</b>				
<b>(i)</b>	SD1: $r = \underline{-0.99 \text{ to } -1(.00)}$	B1		AWFW (-1.00000)
<b>(ii)</b>	SD2: $r = \underline{0.75 \text{ to } 0.95}$	B1	2	AWFW (0.89935)
<b>(b)</b>				
<b>(i)</b>	SD3: Data/relationship/graph is <b>non-linear/curved/parabolic</b>	B1		OE; two relationships/correlations
<b>(ii)</b>	SD4: No correlation if <b>outlier</b> ignored Correlation caused only by <b>outlier</b>	B1	2	OE; must reference 'outlier' or 'anomaly'
<b>(c)</b>				
<b>(i)</b>	<b>Possibly correct</b>	B1		CAO; ignore reasoning/explanation
<b>(ii)</b>	<b>Probably incorrect</b>	B1		CAO; ignore reasoning/explanation
<b>(iii)</b>	<b>Definitely incorrect</b>	B1	3	CAO; ignore reasoning/explanation