

Mark Scheme

Q1.

Question	Scheme	Marks															
(a)(i)	20 (%)	B1															
(ii)	58 – 20 = 38 (%)	M1 A1 (3)															
(b)	For drawing a composite (stacked) chart in correct order, lines at 16 then 54 then 68 and correct shading. (Tolerance of ½ line vertically)	M1 A2 (3)															
(c)	E.g. 35-54 year olds answered correctly more than 16-34. 16-34 year olds answered too high more than 35-54.	B2															
	<table border="1"> <thead> <tr> <th></th> <th>16-34</th> <th>35-54</th> </tr> </thead> <tbody> <tr> <td>Too low</td> <td>(18%)</td> <td>More (20%)</td> </tr> <tr> <td>Correct</td> <td>(28%)</td> <td>More (38%)</td> </tr> <tr> <td>Too high</td> <td>More (15%)</td> <td>(10%)</td> </tr> <tr> <td>Don't know</td> <td>More (39%)</td> <td>(32%)</td> </tr> </tbody> </table>		16-34	35-54	Too low	(18%)	More (20%)	Correct	(28%)	More (38%)	Too high	More (15%)	(10%)	Don't know	More (39%)	(32%)	(2)
	16-34	35-54															
Too low	(18%)	More (20%)															
Correct	(28%)	More (38%)															
Too high	More (15%)	(10%)															
Don't know	More (39%)	(32%)															
		[8]															
Notes																	
(a)(ii)	M1 for 58 – '20' or $a - 20$ (a correct ft answer with no working in (a)(ii) scores M1A0) SC: Use of 16 – 34 composite bar chart leading to 28 scores M1A0																
(b)	M1 for drawing a composite (i.e. stacked) chart, 4 blocks in correct order (condone not reaching 100 for the M mark) A2 for getting all correct with correct shading (Condone opposite diagonal shading for the Correct/2 nd block) OR A1 for at least 2 out of 3 lines drawn correctly (from 16, 54, 68) SC: If M0, all correct lines within tolerance is B2 (ignore shading).																
(c)	B2 for any 2 correct comparisons OR B1 for any 1 correct comparison Ignore extraneous non-contradictory comments. Condone 'about the same percentage answered too low for each age group'. Condone reference to numbers rather than percentages.																

Q2.

Question	Scheme	Marks
(a)(i)	France	B1
(a)(ii)	Spain	B1 (2)
(b)	24 – 3 21	M1 A1 (2)
(c)	$\frac{12}{36} \times 100 = 33.333\dots\%$	M1 A1 (2) [6]
Notes		
(b)	M1 for 24 – 3 with at least one of these correct (subtraction may be implied by their answer) A1 for answer in the range 20 to 22 not inclusive SC: 22 – 1.5 scores M1A0	
(c)	M1 for 12÷36 oe A1 awrt 33(%)	

Q3.

	5ST1H_01 Scheme	Marks
(a) (b)(c)(d)	Two correct bars: 54 and 12 with shading 42 Sugar Light curry has lower %RDA for saturates. Standard is 90(%) and Light is 28(%)	B2 (2) B1 (1) B1 (1) B1 B1 (2) [6]
	Notes	
(a) (d)	B2 for both bars with standard chicken curry bar shaded. ½ square tolerance on height (ignore width) (B1 for both bars no shading or either bar correct with shading) B1 for any correct comparison involving saturates (allow converse) B1 for any correct supporting figures e.g. 'difference is 62%', 'Standard is (approximately) 3 times Light' (condone 'more than double')	

Q4.

	Working	Answer	Mark	Notes
(a)	'Males are unemployed for longer/more months than females.' (or converse)		1	B1
(b)	OR		3	Any hypothesis which relates to length of unemployment of both males and females.
(c)	'males and females are unemployed for similar time'		2	(Reference to <u>numbers</u> rather than % may be acceptable <u>in this part only.</u>) (Do NOT accept questions.) M1 for attempt at drawing a composite (i.e. stacked) chart, blocks
	Lines at 44 then 64 then 81 then 91 then 95, and correct shading. (Tolerance of ½ line vertically) CONCLUSION: My hypothesis is/is not correct. (May be a re-statement of hypothesis in (a) OR answering their 'question' from (a)) REASON: e.g. Higher % of females unemployed for shorter periods. e.g. 52% males and 64% females under 6 months			

		<p>unemployed. e.g. 14% males but only 5% females over 36 months unemployed. etc</p>	<p>in correct order. A2 for getting all correct OR A1 for getting lower 2 blocks correct (44,64) or all correct lines but with incorrect/no shading. SC: If M0, all correct lines within tolerance is B2 (ignore shading). B1ft Must ft correctly from part (a).</p> <p>Note: If hypothesis/question in (a) relates to <u>numbers</u> unemployed, then first B1 in (c) can only be awarded for "cannot say if correct, as we only have percentages". . B1ft Allow follow through from (b). A correct comment comparing a number of months of unemployment</p> <p>Candidates must NOT refer to <u>numbers of males/females</u>. This question is about %</p>
--	--	---	--

Q6.

		Working	Answer	Mark	Notes
	(a) (b) (c)	40.2 + 19.5 + 1.2 42	7.1 West Midlands 6 0.9 91.6	1 1 2 2	B1 No other answer accepted B1
	(d) (e)	.8 + 20.1 + 2.1+ 19.8 + 6.8	Any one of: Some graduates might not have been contacted or replied or have given the required information	1	No other answer accepted M1 For effort to add correct numbers or to do 100 – (19.6 + 9.1) could be implied by 71.3 A1 Correct answer only Note: 1. Do NOT ignore subsequent working 2. 60.9 no working gets both marks. 3. 67.968 no working gets M0A0 4. 60.9 in working but 60/61 on answer line is M1A1. M1 For effort to add five correct numbers A1 Correct answer only. Do NOT ignore subsequent working Note: 91.6 in working but 91/92 on answer line is M1A1. B1 Any equivalent answers accepted. Not all graduated or some

					dropped out or did not study in UK all B0 Reference to rounding errors B0.
--	--	--	--	--	--

Q7.

		Working	Answer	Mark	Notes
	(a)(i)		Illness (not medical or dental appt.)	2	B1 Accept 'illness'. B1
	(ii)		Other	1	Accept 'other'. B1
	(b)		unauthorised circumstance s Excluded, no alternative provision		Accept 'excluded'. May be seen in a sentence.

Q8.

Question	Scheme	Marks
(a)	118.1	B1 (1)
(b)	Education	B1 (1)
(c)	(118.2 – 88.4 =) 29.8	B1 (1)
(d)	Individual figures have been rounded	B1 (1)
(e)	$497 - 359.6$ $= 137.4$ $\left(\frac{137.4}{359.6} \times 100 \right)$ $= 38.2 (\%)$ <p style="text-align: center;">OR</p> $\frac{497}{359.6}$ $= 1.382$ $(1.382 \times 100 - 100)$ $= 38.2 (\%)$	M1 A1 (2) [6]
Notes		
(a)	Allow 118 100 000 000	
(b)	Accept 'category 9' or just '9'	
(c)	Allow 29 800 000 000	
(d)	Condone any reference to rounding.	
(e)	M1 for either first stage of working (with correct figures from the table) May be implied by sight of 137.4 or 0.0382... or 1.382... or 138.2... Note 0.7235... is M0 for incorrect division. A1 for awrt 38.2 (Accept 38 for M1A1 ONLY IF working shown.) SC: if no marks scored then awrt 38 is B1	

Q9.

		Working	Answer	Mark	Notes																
	(a) (b)	<table border="1"> <tr> <td></td> <td>V</td> <td>R</td> <td>Total</td> </tr> <tr> <td>G</td> <td></td> <td></td> <td>50</td> </tr> <tr> <td>P</td> <td></td> <td></td> <td>44</td> </tr> <tr> <td>Total</td> <td>56</td> <td>38</td> <td>94</td> </tr> </table>		V	R	Total	G			50	P			44	Total	56	38	94	50, 44, 56, 38 94 Paris and Venice	2 2	B1 for two figures correct
	V	R	Total																		
G			50																		
P			44																		
Total	56	38	94																		
	(c) (d)	$\frac{32}{\text{their}56}$	32 choose this holiday (all the others are less than this) OR This is the highest figure excluding totals OR Because the highest number is 32 OR The highest number of holidays booked. $\frac{26}{94}$ or $\frac{13}{47}$ or awrt 0.28 or 28% $\frac{32}{56}$ or $\frac{16}{28}$ or $\frac{8}{14}$ or $\frac{4}{7}$ or awrt 0.57 or 57%	1 2	B1 B1 for all correct. All figures must be in the correct place B1 B1 Equivalent accepted. Do not accept comments about the attractions of these places. B1ft This is a follow through for their 94 Do not accept ratios. Must be a fraction, decimal or percentage. M1 ft for picking 56 for denominator or their 56 (in table) or seeing 32:56 A1 cao Do NOT accept ratios. Must be a fraction, decimal or percentage.																

Q10.

	5ST1H_01 Scheme	Marks
(a) (b)(c) (d)	<p>Somerfield 1 890 000 (allow 1 890) 2009: $30.1+17.2+16.2 +11.7$ = 2 010: $30.4+17.0+16.3+12.3$ = <u>7</u> <u>5.2</u> 76A correct comment (follow through their figures)</p>	<p>B1 (1) B1 (1) M1 A1 A1 (3) B1ft (1) [6]</p>
	Notes	
(c) (d)	<p>M1 for 4 figures added together with at least three correct for either year (may be implied by one correct total). Do not isw here. If there is division by 4 (or 100), then M0 A1 for 75.2 or 76 (allow 76.0) A1 for both answers correct and associated with correct year B1ft for a correct comment based on two values found in (c). (Ignore figures in their statement). Do NOT allow comments about individual supermarkets only. Accept: both about $\frac{3}{4}$ / they are similar / there is little change / it has increased etc.</p>	