Paper: 1MA	Paper: 1MA1/3H								
Question	Working	Answer	Mark	Notes					
11 (a)		57	B1	cao					
Q1 ^(b)		Decision and reason	C1	Jamil might not be correct and reason, eg the maximum weight could be less than 80 or the minimum weight could be less than 40					
(c)		Shown	C1	for evidence of reading from the graph at weight 65 (= 48 to 49) or at cf 45 (= 63)					
			C1	eg 25% of 60 is 15 but only 11 potatoes have a weight greater than 65g or 25% of potatoes have a weight greater than 63g					

Paper: 1MA1/2H								
Question	Working	Answer	Mark	Notes				
8 Q2		12	M1 A1	for evidence of taking a reading from the graph from $h = 160$ for answer in the range 11.8 to 12.2				

Paper: 1MA1/2H								
Question	Answer	Mark	Mark scheme	Additional guidance				
11 (a)	5, 35, 55, 70, 78, 80	B1	cao					
(b)	cf graph	M1	for 5 or 6 of their points plotted correctly from a cf table	Ignore to the left of the first point and right of the last point				
		A1	for a fully correct graph	Accept a smooth curve or line segments				
Q3			SCB1 if 5 or 6 of their points plotted not at end but consistent within each interval and joined by a curve or line segments providing no gradient is negative					
(c)	7.5	M1	for a clear method to read off the cf graph at 90	Sight of 74 or 6 implies M1				
		M1	for a full method to find the percentage eg $(80 - \text{``74''}) \div 80 \times 100 \ (=7.5)$	The following readings give the following percentages				
	A1		for 7.5 or ft cf graph	72 = 10% 73 = 8.75% 74 = 7.5% 75 = 6.25% 76 = 5%				

Paper: 1MA1/1H							
Question	Answer	Mark	Mark	scheme	Additional guidance		
12 (a)	5,15,35,55,70,80	B1	cao				
(b) Q4	Graph drawn	M1 A1	for 5 or 6 of their points plotted correctly for a fully correct graph SC B1 if 5 or 6 of their points plotted no and joined by a curve or line segments pr	Ignore to the left of the first point and right of the last point If histograms drawn, points must be identified Accept a smooth curve or line segments			
(c)	Correct decision and correct figures	M1	for 60 ÷ 100 × 80 (=48) oe	reading value from graph at wage = 360 (=40) or for $35 + \frac{1}{5} \times 20$ (=39)	ft from a cum freq graph		
		M1	reading value from graph at cf = 48 (=380)	for "40" ÷ 80 × 100 (=50(%)) or for 60 ÷ 100 × 80 (=48)			
		C1	ft for correct decision and correct figures eg No with 48 and "380" or with "40" and "40" and "40" or with "40				

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Paper: 1MA1/1H								
Question	Answer	Mark	Mark scheme	Additional guidance				
12 (a)	cf graph	M1	for 5 or 6 points plotted correctly	If histograms drawn, points must be identified				
Q5		A1	for a fully correct graph SC B1 if 5 or 6 of their points plotted not at the end but consistent within each interval and joined by a curve or line segments providing no gradient is negative	Accept a smooth curve or line segments Ignore to the left of the first point and right of the last point				
(b)	13 to 14	В1	for answer in the range 13 to 14 or ft their cf graph	ft only from a cf graph				

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Paper: 1MA1/2H							
Question	Answer	Mark	Mark scheme	Additional guidance			
8	Error in inequalites	C1	for identifying incorrect inequalities Acceptable examples gives at least one correct inequality eg $(10 < t \le 20)$ should be $0 < t \le 20$ it should be $t \le 20$ (all) inequalities should start with 0 should start with 0				
Q6			Not acceptable examples $10 < t \le 20$ is wrong the numbers have been added wrong				

Paper: 1MA1/1H								
Question	Answer	Mark	Mark scheme	Additional guidance				
10 (a)	cf graph through (40, 5), (60, 25), (80, 35), (100, 38) and (120, 40)	C2	for a complete and accurate cf graph	May be a cumulative frequency curve or a cumulative frequency polygon Ignore any graph drawn to the left of the first point If histograms drawn, plots must be identified				
		(C1	for at least 4 or 5 cf values plotted correctly)					
Q 7			SC: B1 for 4 or 5 points plotted not at end but consistently within each interval and joined provided no gradient is negative					
(b)	answer in range 21 to 28	M1	for UQ in the range 66 to 70 or LQ in the range 42 to 46 or ft their cf graph					
		A1	for answer in range 21 to 28 or ft their cf graph					
(c)	answer in the range $\frac{19}{40}$ to $\frac{24}{40}$	M1	for finding the difference between readings taken from the cf axis at points from a mark of 50 and a mark of 90 or ft their graph (if possible)	Their graph must be a cf graph				
		A1	for an answer in the range $\frac{19}{40}$ to $\frac{24}{40}$ or ft their cf graph	Accept any equivalent fraction, decimal from 0.475 to 0.6 or percentage from 47.5% – 60%				

Paper: 1MA1/2H								
Question	Answer	Mark	Mark scheme	Additional guidance				
11	Box plot	В3	for fully correct box plot	Box can be of any height. Accept ends that are marked (eg line, cross, dot) or defined by the end of the whiskers if clear				
Q8		(B2	for box plot showing a box and at least 3 correctly plotted values from 24, 42, 54, 64, 96)					
		(B1	for correctly identifying one of the LQ (42) Median (54) or UQ (64) from the CF graph)	May be implied by one of these correct on the box plot				

Paper: 1MA	Paper: 1MA1/3H								
Question	Answer	Mark	Mark scheme	Additional guidance					
13	Statements	C1	Makes reference to the fact that the label on the horizontal axis is missing						
Q9		C1	Makes reference to the fact that the graph has not been plotted at the top end of the class intervals, eg has plotted at midpoints						

Paper: 1MA1	Paper: 1MA1/1H							
Question	Answer	Mark	Mark scheme	Additional guidance				
10 (a)	10, 25, 50, 80, 85,100	B1	cao					
(b)	Graph drawn	M1	for 5 or 6 of their points plotted correctly from a cf table with no more than one error	If histograms drawn, plots must be identified.				
		A1	for a fully correct graph	Accept a smooth curve or line segments. Ignore to the left of the first point and right of				
Q10			SC B1 for 5 or 6 cf values plotted at correct heights not at end but consistently within each interval and joined provided no gradient is negative	the last point.				
(c)	35 to 39	B1	for answer in the range 35 to 39 or ft their graph (if possible)					
(d)	85 to 93	M1	for finding the difference between readings taken from the profit axis at points from a cf of 25 and a cf of 75 ft their graph (if possible)					
		A1	for answer in the range 85 to 93 or ft their graph (if possible)	If answer is in the range award the marks unless from obvious incorrect working				