

Paper: 1MA1/3F				
Question	Working	Answer	Mark	Notes
19 (a)		$160 < h \leq 170$	B1	correct class interval
(b)		Line segments joining the points (135, 4), (145, 11), (155, 24), (165, 22) and (175, 19)	C2 [C1	for fully correct frequency polygon for points plotted correctly at midpoints of intervals OR joining points with line segments at the correct heights and consistent within the intervals (including end values) OR correct frequency polygon with one point incorrect OR correct frequency polygon with first and last point joined]
Q1				NB: ignore any histogram drawn and any part of frequency polygon outside range of first and last points plotted

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
21	Two statements	C2	<p>Two different statements</p> <p>Acceptable</p> <p>There is no 'frequency' label / y-axis is not labelled / no title for the y-axis</p> <p>The polygon should not be closed / have a line at the bottom / have first and last points connected</p> <p>(15, 6) has been plotted incorrectly / at (15, 8) / (The first point is at) 8 rather than 6 / First point is on an incorrect frequency</p> <p>Not acceptable</p> <p>There is no title / Points should be joined with a curve</p> <p>x-axis doesn't start at 0</p> <p>There is no label</p> <p>The axes have not been labelled (x and y)</p> <p>The points haven't (all) been plotted correctly</p> <p>$10 < w \leq 20$ and $30 < w \leq 40$ have been plotted wrong</p> <p>The first point is plotted incorrectly, its at (15, 7) not (15, 6)</p> <p>The points have been joined up wrong / Points should not be joined in the shape of a triangle / They've connected all the points</p> <p>Done the midpoints rather than the numbers on the right side / The points are in the middle</p>	Ignore additional statements provided no contradiction
Q2		(C1	for one statement eg from those above)	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
26	(a)	B1	accept 40 – 50 oe	
Q3	(b)	B2	for fully correct polygon with points plotted at the midpoints	Joining must be with line segments
		(B1)	for points plotted correctly but not joined by straight lines or joining points at correct heights consistently within intervals including plotting at end values or correct frequency polygon with one point incorrect or correct frequency polygon with first and last points joined directly)	for example, at 10, 20, 30,...or at 20, 30, 40,... Ignore any histogram drawn and any part of frequency polygon outside range of first and last points plotted

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
26	40 missing from frequency scale Incorrect point (50, 5)	C2	Two different statements Acceptable eg (50, 5) / the last point is incorrect the last point should be at (45,5) the last point plotted was placed incorrectly for his last point he has plotted by the end of the data and for the rest he has plotted by the middle he did not use the midpoint, he used 50 instead of 45 40 missing (from vertical axis) vertical scale is not linear the frequency doesn't increase in the same intervals the vertical axis is not right Not acceptable eg the last point should be at (40, 5) bottom of the polygon should be connected he didn't start the graph at the origin he did not draw a polygon he has plotted the first 4 points at midpoint	Ignore additional statements provided no contradiction
Q4		(C1)	One acceptable statement)	