

## FREQUENCY POLYGONS

### Pearson Edexcel - Tuesday 11 June 2019 - Paper 3 (Calculator) Foundation Tier

1.

26	(a)	$40 < h \leq 50$	B1	accept 40 – 50 oe	Joining must be with line segments  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
	(b)	<p>polygon drawn</p> <p>(15,7), (25,13) (35,14), (45,12) (55,16), (65,18)</p>	B2  (B1)	<p>for fully correct polygon with points plotted at the midpoints</p> <p>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)</p>	

### Pearson Edexcel - Wednesday 8 November 2017 - Paper 3 (Calculator) Foundation Tier

2.

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

### Pearson Edexcel – Specimen 1 - Paper 2 (Calculator) Foundation Tier

3.

23	(a)		$160 < h \leq 170$	B1	for identifying the correct class interval
	(b)		<p>1. Points should be plotted at mid-interval values</p> <p>2. The polygon should not be closed</p>	C1 C1	<p>for a correct error identified</p> <p>for a correct error identified</p>

### OCR Sample Question Paper 3 – Morning/Afternoon (Calculator) Foundation Tier

4.

12		<p>Vertical axis is not consistent</p> <p>The line does not represent the days when he doesn't use the internet</p>	<p>2</p> <p>2 A02.5b</p>	B1 for each valid comment	
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AQA Thursday 4 June 2020 – Morning (Calculator) Foundation Tier

5.

Q	Answer	Mark	Comments	
23(a)	Plots at least 3 points correctly	M1	$\pm \frac{1}{2}$ square	
	All four points correctly plotted and joined	A1	$\pm \frac{1}{2}$ square ignore working for part (b)	
	<b>Additional Guidance</b>			
	$\pm \frac{1}{2}$ square means half a small square horizontally <b>and</b> vertically			
	If a point is within tolerance the line must be within $\pm \frac{1}{2}$ square of their point			
	Mark intention for joining point to point			

Q	Answer	Mark	Comments	
23(b)	[70, 78]	B1		
	<b>Additional Guidance</b>			
	Answer in range with or without working, with no graph or incorrect graph			B1
	70.5 – 75 on answer line (both values in range)			B1

AQA Monday 12 November 2018 – Morning (Calculator) Foundation Tier

6.

<b>24(a)</b>	Plots at least 3 points correctly	M1	Plots within the correct 2 mm vertical square
	Fully correct with all points joined	A1	
	<b>Additional Guidance</b>		

<b>24(b)</b>	[4200, 4500]	B2	B1 Any indication the 2018 figure is being increased for 2019 eg a point plotted for 2019 that is greater than 3780
	<b>Additional Guidance</b>		
	Answer in range with or without working		B2
	4300 – 4350 on answer line (both values in range)		B2
	4400 – 4600 on answer line (one value in range)		B1
	Answer outside of range but between 3780 and 4200		B1
Answer outside of range but greater than 4500		B1	