PIE CHART

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

1.

21	210	M1	for method to find total frequency, $60 \times 2 (= 120) + 30 \times 5 (= 150) + 30 \times 9 (= 270) + 15 \times 6 (= 90)$ $+ 45 \times 2 (= 90)$ or 720	Accept one error in total for the award of the method marks
		MI	OR for method to find the total area, $4 + 5 + 9 + 3 + 3$ (= 24 cm ²) for finding the number of onions less than 60g or greater than 120 g = 120 + 90 + 90 (= 300), OR for finding the number of onions between 60g and 120g	24 must be from adding areas of bars not heights of bars
			= 150 + 270 (= 420) OR for finding the area under the graph less than 60 or greater than 120 = 4 + 3 + 3 (= 10 cm ²)	
			OR for finding the area under the graph between 60 and 120 = $5 + 9 (= 14 \text{ cm}^2)$	14 must be from adding areas of bars not heights of bars
		MI	(dep M2) for $1 - \frac{*300^*}{*720^*} (= \frac{7}{12})$ oe OR for $\frac{*420^*}{*720^*} (= \frac{7}{12})$ oe OR for $\frac{*14^*}{*24^*} (= \frac{7}{12})$ oe	Accept 58.3%
		Al	cao	

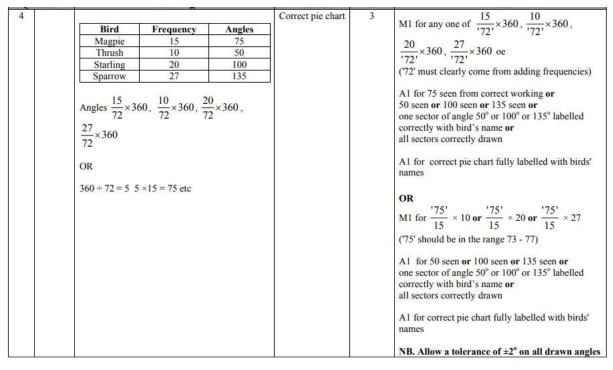
Pearson Edexcel - Monday 6 November 2017 - Paper 2 (Calculator) Higher Tier

2.

11	0.119	P1	for starting the process, eg finds area 25π or 16π oe, or finds angle for town A, $0 - 19$ (70°), may be on diagram
		P1 A1	for a complete process, eg $\frac{70}{360} \times \frac{25\pi}{41\pi}$ 0.118 - 0.119 or 11.8% - 11.9%

Pearson Edexcel - Thursday 8 November 2012 - Paper 2 (Calculator) Higher Tier

3.



AQA GSCE – Thursday 8 June 2017 – Paper 2 (Calculator) Higher Tier

4.

	Alternative method 1					
	360 – 110 or 250 or 360 – 110 – 110 or 140	M1	May be seen on diagram oe			
	3360 + their 140 or 24 or 2640 (men) or 6000 (women)	M1dep	their 140 must be from 360 - 110 - 110 oe			
	8640	A1	SC2 4838 or 4839			
10	Alternative method 2					
	$100 - \frac{110}{360} \times 100$ or 100 - 30.5() or 100 - 30.6 or 69.4(%) or 69.5(%) or $100 - \frac{110}{360} \times 100 - \frac{110}{360} \times 100$ or 100 - 30.5() - 30.5() or 100 - 30.6 - 30.6 or 38.8(%) or 38.9(%)	M1	May be seen on diagram oe			
	3360 * (their 69.4 – their 30.5) or 3360 * their 38.8() or 86.4	M1dep	their 69.4 must be from $100 - \frac{110}{360} \times 100$ their 30.5 must be from $\frac{110}{360} \times 100$			
	8640	A1	SC2 4838 or 4839			

Alternative method 3 and Additional Guidance continue on the next page

10 cont	Alternative method 3						
	$\frac{250}{360}x - \frac{110}{360}x = 3360$		Sets up a correct equation to work out total (x) , men (m) or women (w)				
	or $m = \frac{110}{360} \times (m + 3360 + m)$	M1	oe				
	or $w = \frac{250}{360} \times (w + w - 3360)$						
	$x = 3360 \div \left(\frac{250 - 110}{360}\right)$	M1dep	oe				
	or m = 336 000 + 140 or 2640						
	or w = 840 000 + 140 or 6000						
	8640	A1	SC2 4838 or 4839				
	Additional Guidance						
	Condone 8639.9 → answer 8640	M2 A1					
	2640 or 6000	M2					
	4838 and 4839 come from 3360 wome	SC2					