



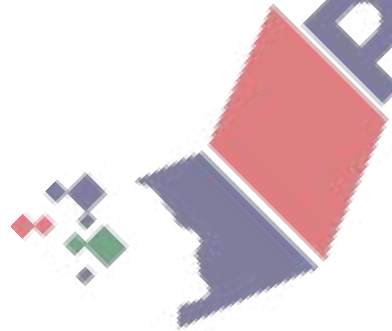
Topical Worksheets for Cambridge IGCSE™ Mathematics (0580)

Statistics

Mark Scheme

1st edition, for examination until 2025

Question	Answer	Marks	AO Element	Notes	Guidance
1	12.8 4.4 0.8	3		B2 for 2 correct heights or 3 correct frequency densities or B1 for 1 correct height or 2 correct frequency densities	
2(a)(i)	$1.5 < h \leq 1.6$	1			
2(a)(ii)	1.62 or 1.623... nfw	4		M1 for 1.35, 1.45, 1.55, 1.65, 1.75 1.85 soi M1 for Σfx M1 dep for <i>their</i> $\Sigma fx \div$ 120	
2(b)(i)	$\frac{14}{120}$ oe	1			



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Question	Answer	Marks	AO Element	Notes	Guidance
2(b)(ii)	$\frac{21}{20060}$ oe	4		<p>M3 for $3 \left(\frac{14}{120} \times \frac{7}{119} \times \frac{6}{118} \right)$</p> <p>or M2 for $\frac{14}{120} \times \frac{7}{119} \times \frac{6}{118}$ isw</p> <p>or M1 for $\frac{14}{120}, \frac{7}{119}, \frac{6}{118}$</p> <p>After 0 scored, SC1 for answer $\frac{343}{864000}$ or $\frac{343}{288000}$ oe</p>	
2(c)(i)	55, 79, 106, 120	2		B1 for 2 or 3 correct	
2(c)(ii)	Correct diagram	3		<p>B1 for correct horizontal plots</p> <p>B1FT for correct vertical plots</p> <p>B1FT dep on at least B1 for reasonable increasing curve or polygon through <i>their</i> 6 points</p> <p>If 0 scored SC1 for 5 out of 6 points correctly plotted</p>	

Question	Answer	Marks	AO Element	Notes	Guidance
2(d)(i)	1.62 to 1.63	1			
2(d)(ii)	1.57 to 1.58	2		B1 for 48 soi	
3	Correct histogram	4		B1 for each correct block If 0 scored, SC1 for 5, 20, 24, 1 seen	
4	16.6 or 16.60 to 16.61 nfw	4		M1 for 5, 12.5, 17.5, 22.5, 30 soi M1 for $\sum fx$ where x is in correct interval, including boundaries M1 dep on second M1 for $\frac{\sum fx}{50+85+100+120+10}$	
5	Fully correct histogram	4		B1 for each correct bar If 0 scored, SC1 for frequency densities of 5.4, 4.2, 0.8 and 0.45 seen	
					[Total: 33]