## MARK SCHEME for the May/June 2013 series

## 0445 DESIGN AND TECHNOLOGY

0455/23

Paper 2 (Graphic Products), maximum raw mark 50

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper					
			IGCSE – May/June 2013	0445	23					
	Section A									
A1	(a)	Semi circ Ø 80 (1)	cle evident (1) )		[2]					
	(b)		e evident (1) and 50 apex (1)		[2]					
	(c)		tangles (1 + 1) (2) rectangles (1 + 1) (2)		[4]					
	(d)	Thick line	e enhancement (1)		[1]					
					[Total: 9]					
A2	(a)	Accuracy <b>A</b> (1) <b>R</b> (1) Spacing	ey and proportion of:							
		Height (1	1)		[4]					
	(b)		complete (1) trical angle (1)		[2]					
					[Total: 6]					
A3	(a)	Width of	of rectangular base is 20 (1) f rectangular base is 90 (1) of C & K 80 (1)							
		Semi circ Repeat c	cle plots evident (1) cle drawn to candidate's plots (1) curve C (1) rident below curve of C (1)		[7]					
		Dase evi	ident below curve of C (1)		[7]					
	(b)		line for <b>K</b> (1) line for <b>I</b> (1)		[2]					
	(c)	Coin slot	t $30 \times 5$ on correct face (1)		[1]					
					[Total: 10]					

	Page 3			Mark Scheme	Syllabus	Paper				
				IGCSE – May/June 2013	0445	23				
Section B										
В4	(a)	Development								
	()	4 fac								
		Fold								
		Fold Flap								
		Fold								
		Fold								
		Fold Fold								
			Fold up flap $140 \times 180$ to scale (1) Fold up flap $60^{\circ}$ angle (1)							
	(b)	Arro								
				id neck correctly drawn (2) to match neck (1) dist (1) (2)						
				w-tabs on back $(2 \times 1)$ (2) w-tabs on fold over laps (2)		[8]				
	(c)	<ul> <li>c) Letters (award only on development)</li> <li>C K I added (1)</li> <li>Appropriate size (1)</li> </ul>								
			-	ct face (1)						
		In correct orientation (1)								
						[Total: 25]				
B5	(a)									
		Circle drawn (1) Divided into 6 (1)								
		Corr								
		Clea	[7]							
		Corr	[7]							
	(b)	(i)	Two	dimensional bar chart						
	()	• • •		able scale selected (1)						
				mation correctly plotted ( $\times$ 5) (1)						
			Labels evident (days of week) (1)			[3]				
		· · /		e dimensional bar chart						
				hart (1) able scale selected (1)						
				ical scale labelled 'customers' (1)						
				rows of columns (1)						
			-	porate data at the front (1) nestic data plotted to scale (5 $\times$ 1) (5)						
				porate data plotted to scale $(5 \times 1)(5)$		[15]				
						[Total: 25]				
						=•1				