MARK SCHEME for the May/June 2013 series

0445 DESIGN AND TECHNOLOGY

0445/21

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	21
A1	(a)	60° extends 60° extends $60^{\circ} \times 80^{\circ}$	<i>tline</i> nal shape evident (1) nsion 80 long lower LHS (1) nsion 80 long top RHS (1) top LHS (1) necting line (1)		[5]
	(b)	<i>Fruit</i> circle Ø8	80 (1)		[1]
	(c)	<i>Triangle</i> Equilater 20 side ([2]
	(d)	Sandwic 45° line (Side heig			[2] [Total: 10]
A2	(a)	Lettering Accuracy S (1	y and proportion of:		
		W (1 Spacing Height (1	1) (1)		[4]
	(b)		ard outline or angle/vertical extended (1)		[1] [Total: 5]
А3	(a)	Ghost bo Ghost bo Lid outer Lid outer Radius o Window	ngle to size (1) ox evident (1) ox projected to form front (1) r drawn overhanging (1) r drawn 90 wide (1) corners (1) drawn (1)		
	(b)	Window Tone	drawn 120 × 50 (1)		[8]
	. ,		to show transparency (0 – 2pr) (2)		[2]
					[Total: 10]

	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2013	0445	21
B4	(a)	Finger sl Finger sl Finger sl	(1)		[7]
	(b)	Thicknes Divider e Finger sl	square outline (1) is of card 6mm to scale (1) ivident (1) ot length evident (1) ot drawn central (1)		[5]
	(c)	Finger sl Finger sl	ration projected (1) ot projected from plan (1) ot Height projected from FE (1) as evident on R/H of slot (1)		[4]
	(d)	Ø 66 drav Ø 54 drav Ø 54 con Can cent Can proj Can proj Overall h	n in position D (1) wn (1) wn (1) centric (1) tred on box diagonal (1) ected to FE & visible (1) ected to EE & visible (1) neight correct (50 ± 3) (1)		
		ı∠mm sr	noulder to can visible (60°) (1)		[9]
					[Total: 25]

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	Page 4			Mark Scheme	Syllabus	Paper
				IGCSE – May/June 2013	0445	21
В5	(a)	<i>Development</i> 5 panels evident (1) Centre panel 150 wide (1)				[2]
		Base 40 deep (1) Two glue flaps to base 2×1 (2)				[3]
		Two	o side	D tall (1) es 40 wide 2×1 (2)		(5)
		Two glue flaps to sides 2×1 (2)				[5]
		Front 80 tall (1) Ellipse shape evident (1) Minor axis 80 (1) Major axis 120 (1) Construction evident (1)				
				candidate construction (1) shoulder to front (1)		[7]
		All glue tabs 10 wide (1) All glue tabs with angled ends (1)				[2]
						[Total: 19]
	(b)	(i)		agon outline ine completed 2 x 1 (2)		[2]
		(ii)	Han	kin evident (1) d (or equivalent) evident (1)		
				ement arrow(s) (1) bol in proportion to outline (1)		[4]
						[Total: 6]