MARK SCHEME for the October/November 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 October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Ра	ge 2	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2013	0445	21
A1	(a)	Head and horizontal arm Ø40 circle (1) Bottom line of horizontal arm (1) Top line (two parts) to touch raised arm (1)			[3]
	(b)		m 16 wide touching circle (1) m 16 wide touching circle (1)		[3]
	(c)	Lower le	g g 60º to centre line (1) g 60º to centre line (1) 10, inner 90º (1)		[3]
					[Total 9]
A2	(a)	<i>lettering</i> Accuracy E (1) R (1) Spacing Height (1			[4]
		Height (1	1)		[4]
	(b)	<i>Signboai</i> Border c Symmetr	complete (1)		[2]
					[Total 6]
Α3	(a)	Ø50 Circ Ø50 colu Column Repeat Ø Any octa 30 Regu	re base × 20 high (1) cle drawn with plots (1) umn to drawn circle (1) shown 80 high (1) Ø 50 from plots (1) agon (1) lar octagon centrally placed (1)		
		Octagon	20 wide (1)		[8]
	(b)		<i>thin line</i> e outer on octagon (1) inner on octagon (1)		[2] [Total 10]

Page 3		Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2013	0445	21
5 e thr glu glu fol 4 > Ha Ha Co	x conne extra su ree furt ue tabs ue tabs d line a × Fold l alf ellips onstruc	thent ected surfaces (1) urfaces to O/L incl full lid PR (5) her glue tabs (on 40 edge of 70 long sides) (3) 8/9 wide (1) angled ends 45° (1) at 35mm to lid (1) ines correct convention PR (4) se drawn (1) se to size (1) tion (0–2 Pr) (2) entated on correct half ellipse (1)		[Total 21]
(b) Sk	 Sketch: – suitable method Slot on back, etc. (1) Extra tab to tuck-in, etc. (1) 			
No	otes: Evide Good	ent (1) d (1)		[2] [Total 4]
B5 (a) Fu	ıll size	view		
An Le	uter rec ny regu ength 24 idth 120	lar rectangle on corner A (1) 40 (1)		[3]
Se	semi			[5]
Se	Mino On c Cons	ose r axis 120 (60 shown) (1) r axis 80 (1) entre lines given (1) struction Pr 0–2 (2) irate outline to construction (1)		[6]
Po	Wate	of pool shown (1) er level with ellipse (1) 50 from fold (1)		
	Step	level with foot (1)		[4]
				[Total 18]

Pa	ge 4	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2013	0445	21
(b)		v : correct position (2 × 1) (2) & 70 shown bent back @ 90º (1)		[3]
(c)	<i>Joining</i> Additiona Notes Pr	al card + joint Pr 0–2 (2) 0–2 (2)		[4]
				[Total 7]