#### **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

#### 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.



Page 2	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2013	0445	21
Ø40 circ Bottom li	d horizontal arm le (1) ne of horizontal arm (1) (two parts) to touch raised arm (1)		[3
	m 16 wide touching circle (1) m 16 wide touching circle (1)		[3
Lower le	g 60° to centre line (1) g 60° to centre line (1) 10, inner 90° (1)		[3
			[Total 9
2 (a) lettering Accuracy E (1) R (1) Spacing Height (1)			[4
<b>(b)</b> Signboar Border c Symmetr	omplete (1)		[ː [Total (
Ø50 Circ Ø50 colu Column Repeat Ø Any octa 30 Regu	re base × 20 high (1) sle drawn with plots (1) rmn to drawn circle (1) shown 80 high (1) 5 50 from plots (1)		[8
	thin line e outer on octagon (1) inner on octagon (1)		[:
Thin line	<b>5</b> ( )		L <sup>4</sup>

	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2013	0445	21
B4	(a)	5 extra s three furt glue tabs glue tabs fold line a 4 × Fold Half ellip Half ellip Construc	ment ected surfaces (1) urfaces to O/L incl full lid PR (5) ther glue tabs (on 40 edge of 70 long sides) (3) s 8/9 wide (1) s angled ends 45° (1) at 35mm to lid (1) lines correct convention PR (4) se drawn (1) se to size (1) ction (0–2 Pr) (2) ientated on correct half ellipse (1)		[Total 21]
	(b)	Slot	- suitable method on back, etc. (1) a tab to tuck-in, etc. (1)		
			ent (1) d (1)		[2] [Total 4]
					[
В5	(a)	Full size	view		
		Outer red Any regu Length 2 Width 12	ılar rectangle on corner A (1) 40 (1)		[3]
		Semi-ciro	cle		
		10 ×	all (1) 80 space (to L of fold) (1) i-circle R40 on centre line (1) d lines (2 × 1) in correct posn (2)		[5]
		Mind On d Cons	pse or axis 120 (60 shown) (1) or axis 80 (1) centre lines given (1) struction Pr 0–2 (2) urate outline to construction (1)		[6]
		Pool side	)		
			e of pool shown (1) er level with ellipse (1)		
		Step	50 from fold (1)		
		Step	level with foot (1)		<u>[4]</u>
					[Total 18]

Page 4	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2013	0445	21

### (b) Plan view

Bends at correct position  $(2 \times 1)$  (2) Sides 70 & 70 shown bent back @ 90° (1)

[3]

# (c) Joining

Additional card + joint Pr 0–2 (2) Notes Pr 0–2 (2)

[4]

[Total 7]