## MARK SCHEME for the May/June 2014 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 2014 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 2014	0445	21	
	Section A					
A1	(a)		5 (1)		[4]	
	(b)		, cle Ø20 (1) es 20 apart 30 tall (1)		[2]	
	(c)	<i>Side walı</i> 30 high ( 30 wide (	1)		[2]	
	(d)		ent (1) assing through apex given (1) g 30 square corner (1)		[3] [Total: 11]	
A2	(a)	Lettering Accuracy <b>A</b> (1) <b>S</b> (1) Spacing Height (1	/ and proportion of: (1)		[4] [Total: 4]	
Α3	(a)	Length to Half Hex Half Hex Door side 90° apex Door side Min two I	tive view o right 140 (1) o left 100 (1) door on RHS (1) door 40 wide (1) es 40 high (1) a door on LHS (1) a door 40 wide (1) es 40 high (1) ines to VP1 (1) ines to VP2 (1)		[10] <b>[Total: 10]</b>	

Page 3		ge 3	Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2014	0445	21
			Section B		
B4	(a)	Half majo Minor ax Construc	re line given (1) or axis to size 90 (1) is to size 150 (1) otion 0–2 pr (2) o construction (1)		[6]
		Widths e Lower ra	t position relative to ellipse (1) xtended (1) dius shown × 2 (2) dius both R15 (1)		[5]
		Triangles			[5]
		R80 touc			[4]
	(b)	Rectang	le for name shown (1) le 110 × 20 (1) le centrally placed (1)		[3]
	(c)	-	of suitable method d tabs etc. – 0–2 pr) (2)		[2]
					[Total: 25]

Pag	ge 4	Mark Scheme	Syllabus	Paper
		IGCSE – May/June 2014	0445	21
B5 (a)	Tr To O Ø C	riangular Tower riangular base 50 side (1) ower 60 high (1) ne elevation 50 wide (1) ne elevation 43/44 wide (1) 26 clock evident centrally on 50 side (1) renulations $10 \times 10 \times 10$ on all sides (1) iews in projection (turrets correct) (1)		[7]
	H C D W W	quare Tower eight 100 (1) renulations $10 \times 10 \times 10$ (1) oor $25 \times 10$ (1) /indow $20 \times 10$ (1) /indow 10 below bottom of turret (1) iews in projection (windows /doors) (1)		[6]
	) Triangular Tower Height 60 (1) Correct orientation (1) Correct depth (44) to apex (1) Apex in correct projection (1) Clock shown (1) Clock on correct face (1) Crenulations on all sides $10 \times 10 \times 10$ (1) Crenulations = spaced on angled sides (1)			[8]
	Height Side 5 Crenu	e <i>Tower</i> t 60 (1) 60 (1) lations 10 × 10 × 10 on all sides (1) 80 × 35 on correct side (1)		[4] [Total: 25]