CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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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 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

Pag	e 2 Mark Scheme	Syllabus Syllabus
	IGCSE – October/November 2	2012 0445 73
Ĺ	<i>Equilateral triangle</i> Length of side (1) Sides at 60º (1)	Syllabus 2012 0445 r Bandaria
F (F	<i>Hexagon</i> Projected A/F from triangle (1) Centre located (1) Hexagon shape (1) Regular hexagon (1) Length of side to O/L (1)	[5]
	<i>D shape</i> Straight line and arc (1+1)	[2]
		[Total: 9]
E	Accuracy and proportion of: B (1) K (1) Spacing (1)	
	Height (1)	[4]
	Border complete (1) Symmetrical (1)	[2]
		[Total: 6]
	Height of rectangular base 20 (1) Width of rectangular base 60 (1) Height of D & V 60 (1) 60 ° triangle drawn flat and plotted onto on end Semi circle plots evident (1) Semi circle drawn to cand plots (1) Repeat curve constructed (1)	of rect base (1)
	Base evident below curve or angle (1)	[8]
(b) F	Printed line for V at correct angle (1)	[1]
(c) (Coin slot 30 × 5 central to 60 base (1)	[1]
		[Total: 10]

Page 3	Mark Scheme	Syllabus Syllabus	
	IGCSE – October/November 2012	0445	
1 Cuitable graphi	and mathed upod (1)	Lay .	
Accuracy of spa	cal method used (1) acing (1)	76.	
		9	
Head square (1			
Head correct size	ze to O/L (20) (1)	[2]	
Upper body evi	dent (1)	Syllabus 0445 2000 2000 2000 2000 2000 2000 2000	
Shoulder length	1 32 (Ì)		
Triangle sides (
60° lower angle	9 (1)	[4]	
Back leg evider	nt (1)		
Long side corre			
Short side corre	ect 21 (1)		
60° angle (1)	- J - /4)	[2]	
Alignment to bo	idy (1)	[5]	
Back foot evide			
90° back angle			
60°/30° remaini		[4]	
Alignment to ba	ul (1)	[4]	
Front upper leg	evident (1)		
90° front angle			
45° remaining a	• • • •	[1]	
Alignment to ba	ICK leg (1)	[4]	
Front foot evide	ent (1)		
90° back angle			
45° remaining a		[4]	
Alignment to ba	ui (1)	[4]	
		[Total: 25]	
		• •	

1	Page 4	4 Mark Scheme	Syllabus	
		IGCSE – October/November 201	2 0445	100
- /.				www.papacambios
5 (a	,	e chart		76.
		rcle drawn (1)		70
		vided into 6 (1) prrect divisions 120/90/60/45/30/15		3
		correct (1) 3 correct (2) 4/5 correct (3)		
		ear labels to correct sector (1)		
		prrect quantity (1)		[1]
				[]
(k	o) Tw	vo dimensional chart		
•	ŚSu	uitable scale selected (1)		
	Infe	formation correctly plotted (x5) (1)		
	La	abels evident (1)		[3]
(0	c) Th	nree dimensional chart		
()	-	D chart (1)		
	Su	uitable scale selected (1)		
	Ve	ertical scale labelled 'customers' (1)		
		vo rows of columns (1)		
		usiness data at the front (1)		
		idividuals' data plotted to scale 5x1 (5)		
	·D.	usiness' data plotted to scale 5x1 (5)		[15]

[Total : 25]