

## WANN, Papa Cambridge.com MARK SCHEME for the May/June 2012 question paper

## for the guidance of teachers

## 0445 DESIGN AND TECHNOLOGY

0445/23

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.

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		2
Page 2	Mark Scheme: Teachers' version	Syllabus 0445
<b>1 (a)</b> Head Circle c Ø40 cir	drawn (1) cle (1)	acambridge.c
<b>(b)</b> Arm Arm dra Arm ma Arm at	awn (1) atches diameter(s) given (1) 90° at elbow (1)	[3]
(c) Front le 60° to f Knee a	eg foot Ø (1) t correct height (1)	[2]
(d) Back le 60° to f Joins to	eg foot Ø (1) o knee at correct height (1)	[2] [Total: 9]
2 (a) Letterin Accura R (1) E (1) Spacing Height	ng cy and proportion of: g (1) (1)	[4]
(b) Border Comple Repeat	ete border on Centre line (1) angle (1)	[2] [Total: 6]
3 (a) Isometr Top red In line v Sloping Sloping Semi-o Constru	ric rectangular base (2) ctangle 40 tall (1) with base (1) g pillar top size 20 × 30 (1) g pillar base size 80 × 30 (1) g pillar evident 3 edges (1) ctagon top evident (1) uction of octagon evident (1)	[9]
(b) Pencil t	one to rectangle (1)	[1]
		[Total: 10]

				www.xtrapapers.com
	Ра	ge 3	Mark Scheme: Teachers' version	Syllabus r
			IGCSE – May/June 2012	0445
B4	(a)	PLAN Length 1 Width 10 Front ele Depth of 2 mm thi 2 mm thi	190 (1) 00 (1) evation f top 40 (1) ckness to top surface & base (1) ckness to sides (1)	enbridge.com
	(b)	Hole pos Centre li Centre c Centre li Cone in Circle re Ø80 circ	sitions and cone <b>C</b> ine at 50 horizontally (1) of one hole 50 in from RHS (1) of one hole 50 in from LHS (1) ine projected to F.E. (1) position C on PLAN (1) opresenting top of cone (1) de (1)	[7]
	(c)	Ø10 evid 60° inclu 60° inclu Ø80 proj Cone co Centre li	dent in base on FE (1) uded angle drawn (1) uded angle drawn through Ø10 (1) jected from plan 2 × 1 (2) implete (2 × sides = 2) (top = 1) (3) ine evident (1)	[9]
	(d)	Hole size In rema Evidence	e Ø56 $\pm 2 \text{ mm}$ (1) ining position (1) e of projection 0–2 pr (2)	[4] [Total: 25]
В5	(a)	EV Two side 1st angle In line fre Overall h Angle of	es to hexagon (1) e projection (1) om plan (1) neight 110 (1) f top 45° (1)	
		PLAN Hexagor Hexagor Correct Circle dr Circle Ø	n drawn (1) n correct size to scale (1) orientation (1) rawn for window (1) 30 (Ø60 to scale) (1)	[10]

Page 4	Mark Scheme: Teachers' version	Syllabus Syllabus	N.
	IGCSE – May/June 2012	0445	30
n) Develon	ment sides		an
Six sides	s same width as given (1)		16.
Joint in d	correct position (1)		10
Two long	g angled sides 2 × 1 (2)		
Two sho	vrt angled sides 2 × 1 (2)		
One tall	rectangle 110 (220 to scale) (1)		
<i>Develop</i> True len Hex widt Construc Ellipse d	<i>ment top</i> gth from EV for hexagon top (1) th plotted from plan (1) ction of ellipse evident from Plan (1) lrawn to reference points (1)		[11]
c) July Added ( On correc In correc Same st	1) ect face (1) et position (1) yle of lettering (1)		[4]

[Total: 25]

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