**CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level** 

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## 7048 CDT: DESIGN AND COMMUNICATION

7048/01

Paper 1, maximum raw mark 80

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.

Page 2		ge 2	2 Mark Scheme Syllabus	N S
			GCE O LEVEL – October/November 2012 7048	No.
	(a)	500 660 2	0 0/700	Sambridge [3]
	(b)	(i)	<b>Front view</b> Stand Height 100mm (accept 115) Width 70mm (accept 66) Three horizontal shelves [1] or one complete width shelf + two half wi	1 1 dth shelves
			showing 2 mm thick [2] One vertical information board to O/L [1] or 50mm high from the top sh	2 elf showing
			2 mm thick [2]	2
				[6]
		(ii)	End view Height to candidate FE Width at base 50 mm Triangle at base (30 mm high x 50 mm) Three horizontal shelves (15 mm wide) projected from candidate protrusion) Information board (50 mm x 30 mm)	1 1 1 FE (accept 1 1 [5]
		(iii)	Plan view Base (70 mm x 50 mm) or to condidate solution	1
			Information board central	1
			Shelf along length of base (15 mm wide)	1
				[4]
(c)	(c)	60 r	mm x 100 mm rectangle	1
		inco	orrectly	iyies auded 2
		30 r	mm diameter circle	1
		Ellip	ipse 50 mm x 30 mm [1] and profile to overlay/ candidate solution [1]	2
		310	ot to overlay (1511111 x 411111)	1
				[7]

Mark Scheme	Syllabus Syllabus
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ne piece development (net) (at least 5 surfaces – ectangles) or workable solution x Fold lines shown · · or lot evident in top	- two triangles and the tribuidge
ectional view of foam board (two lines + hatching) ′' slot	1 1
	Mark Scheme   GCE O LEVEL – October/November 2012   ne piece development (net) (at least 5 surfaces - ctangles) or workable solution   ctangles) or workable solution   c Fold lines shown · · or ot evident in top   ectional view of foam board (two lines + hatching) slot

Page 4		Mark Scheme Syllabus	r –			
		GCE O LEVEL – October/November 2012 7048				
(a)	Front vie End con back Roof cor of roof [1 Details a	ew completed - eaves line to VP2 [1] and the corner vertical [1] npleted by adding one line to VP1 [1] and one vertical line [1] to determine mpleted by adding triangular end [1] ridge of roof line to VP2 [1] and R/H end [] It least one window [1]	mbrio- 3 1 [8]			
(b)	One piec Workabl	ce development (net) with six <u>or</u> seven surfaces if base included e development (net) to make the display stand	1			
	Indicatio	Indication of windows (at least two – front and end) Sufficient glue tabs to hold development together				
	Sufficien					
	WITHITTUT		I			
			[5]			
(c)	Four further process boxes added Finish box added					
	Appropriate simplified text added [1] and stages in the correct order [1]					
	Arrows a	added between boxes	1			
			[5]			
(d)	Planome	etric 30/60 (accept 45/45) base drawn	1			
	Exhibitio six exhib	Exhibition stands shown [1] or exhibition stands shown three dimensionally [2] or all six exhibition stands, including pitched roofs, as shown in arrangement given [3]				
	Position	of 'Sun King' stand shown / located	1			
	Position	of information Tower shown	1			
	Entrance	e and Exit shown	1			
			[8]			
(e)	Sketche	s [1] and notes [1] show a mechanism	2			
(0)	Allows the words 'Sun King' to be displayed in three colours [1] <u>or</u> mechanism will					
	clearly a	llow the words 'Sun King' to displayed in three different colours [2]	2			
			[4]			
			[30]			

Page 5	Mark Scheme	Syllabus r
	GCE O LEVEL – October/November 2012	7048
(a) Do not a words ar Luggage Luggage Suitcase Overall o	award marks when the sentences are used to con ad arrows are acceptable. receipt torn from label label shown with backing paper being peeled off [1 with label being applied or label already applied quality of sketches - High [3], Medium [2] or Low [1]	ovey the message. Sin, Prophy ]
<b>(b)</b> Pentago Equilater Octagon Rhombu	n ral [1] triangle [1] [1] regular [1] s [1] or Parallelogram [1]	[6
(c) (i) 15m 25m 90m 20m R10 80m 5mm	nm circle drawn on centre line (to overlay) nm diameter semi-circle (to overlay) nm rectangle to right nm 'gap' semi-circle to gap [1] leaving at least 5 mm of card   nm x 40 mm rectangle to left [1] with radii to corners n slot at least 25 mm in length from circle	[1] [1] [1]
(ii) Labe Labe Clea Sha	el drawn attached to the handle el threads around the handle ar understanding of how the label 'slots' together pe of label clearly communicated	[9 - - - - - - - - - - - - 

Page 6	Mark Scheme Syllabus	
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<b>(a) (i)</b> Re alo	ndering along the length of the pencil highlight shown [1], ng length of pencil [1]	ambride
<b>(ii)</b> He Lin At	kagon drawn around (inside or outside) given es projected parallel along the pencil east three lines	1 1 1
Co	nsideration of how hexagonal pencil meets sharpened end with curves	1
		[4]
(b) Clear e Flag div	vidence of method of division vided into three	1 1
Two dia Left hai	gonals drawn nd triangle lined in to diagonals	1 1
Method Left hai	of bisection clearly shown (accept diagonals) nd quadrant lined in	1 1
		[6]
(c) (i) Thi	ee dimensional sketch	1
Tra	y drawn	1
Tra Inn	y half way out of the sleeve er detail of trav shown	1 1
		[5]
(ii) Th	ee dimensional view of a ring (will fit on a finger)	1
I W Fla	o sloping sides t to top	1
Су	indrical shape on top of ring	1
Sid	e view of ring drawn (bottom half and hole)	1
Co	rect shaped top n view rectangular in shape	1
Pla	n view has two triangles and a line in the centre	1
		[8]
		[25]



Page 8	Mark Scheme	Syllabus Syllabus
	GCE O LEVEL – October/November 2012	7048 73
(a) Must be Any bar 2 bars co 4 bars co Label to	a Bar Chart for marks to be awarded chart prrect and to proportion prrect and to proportion destinations & number of people (in 1,000)	Cambridg [4]
(b) Circle us One [1], Colour a Labels a	ed two [2] or three [3] correct sized sectors dded to identify sectors dded to identify means of transport	1 3 1 1 [6]
(c) Any Aero Recognia	oplane shape drawn sable Aeroplane a silhouette	1 1
Any Boa Recogni	t shape drawn sable Boat a silhouette	1 1 [4]
(d) Any ison Length o Evidence Top circl Bottom o 90° Quad Quadran Quadran Exploded Inside ed	netric circle on given axis (accept base) of axis to overlay e of construction of isometric top circle e correct to overlay circle 20 mm below circle parallel with top drant evident t 20 mm deep at exploded (above / below / to RHS) d quadrant to size (O/L) dges of remaining part drawn	1 1 1 1 1 1 1 1 1 1 1 1
		[11]
		[25]