

Design and Technology

General Certificate of Secondary Education **1955/01**
(Short Course) **1055/01**

Graphic Products

Mark Scheme for June 2010

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Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

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Tolerance + or -2mm on all questions

1	(a)	(i)	each additional square added in correct place (1 mark) (3 x 1) All 3 squares are drawn within tolerance	3 1	[4]
		(ii)	Rectangle drawn within tolerance	1	[1]
	No marks for freehand in part (a)				
	(b)	Fold shown on paper (can be a 2D sketch) Paper clearly folded in half (must be a 3D sketch)		1 1	[2]
	Marks can be awarded if instruments have been used in part (b)				
	(c)	LONDON EYE printed in capital letters Consistent height of 5 mm within tolerance		1 1	[2]
	(d)	Die cutting has been ticked (selected)		1	[1]
	No marks if more than one box has been ticked (selected) in part (d)				
					Total [10]
	2	(a)	(i)	Rectangle sketched around design B	1
		(ii)	Octagon (does not have to be regular) sketched around design C	1	[2]
Marks can be awarded if instruments have been used in part (a)					
(b)		An appropriate reason (1 mark) which is explained (1 mark) eg Waste is created (1 mark) which increases costs because it then has to be disposed of (1 mark) Shapes do not tessellate (1 mark) which wastes material. (1 mark)		2	[2]
(c)		An appropriate answer that relates to only having to draw one circle as the others can be copied (repeated)		1	[1]
(d)		Circle completed 30 degree line and small circle drawn 60 degree line and small circle drawn All lines and circles within tolerance		1 1 1 1	[4]
No marks for freehand in part (d)					
(e)		Appropriate method given eg Laminating Varnishing and lacquers Use sticky-backed plastic		1	[1]
				Total [10]	

3	(a)	Two tones of shading used (1 mark)		
	OR	Three tones of shading used appropriately (2 marks)	2	[2]
	(b)	Two vertical pieces drawn	1	
		Horizontal piece drawn	1	
		View in line with end view	1	
		All sizes correct within tolerance	1	[4]
		<i>No marks for freehand in part (b)</i>		
	(c)	Three sides appropriately joined to given side and drawn within tolerance	1	
		Top drawn within tolerance or to candidate solution	1	
		3 correct glue tabs drawn (min. 5 mm wide)	1	
		Correct method used to show glue tabs (at least one) and fold lines (at least one)	1	[4]
				Total [10]
4	(a)	2D CAD has been ticked (selected)	1	[1]
		<i>No mark if more than one box has been ticked (selected) in (a)</i>		
	(b)	Each appropriate reason 1 mark		
		eg Does not have to be redrawn	1	
		It is always the same		
		Can be easily re-sized	1	[2]
		Changes can be easily made		
		Can not get lost or damaged easily		
	(c)	Appropriate method given	1	[1]
		eg memory card		
	(d)	USB lead		
		CD		
		Pointer tool selected	1	
		Photograph highlighted (selected)	1	
	(e)	Photograph dragged to correct size	1	[3]
		Fill tool selected	1	
		Red chosen from colour palette	1	
		Cursor moved inside logo shape and clicked	1	
				[3]
				Total [10]

5	<p>(a) Card thickness 500 – 2000 microns OR 0.5 mm – 2 mm Appropriate reason related to the card being thick (rigid) enough to stand up and support the weight of the leaflets or thin enough to fold</p>	1	1	[2]
(b)	<p>Front drawn Sides drawn Back drawn Strut drawn</p>	1	1	1
		1	1	[4]
	<i>Must be a 3D view to gain the marks</i>			
(c)	<p>Correct shaped hole cut out of sheet material Explanation of how hole could be cut out Explanation of how colour could be applied eg Spray paint At least two appropriate tools, pieces of equipment or materials named</p>	1	1	1
		1	1	[4]
			Total [10]	

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