

# **2012 Graphic Communication**

# **Standard Grade – Credit**

# **Finalised Marking Instructions**

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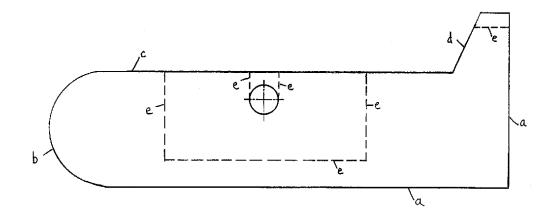
### 2012 Graphic Communication SG Credit Marking Instructions

1.	(a)	1	Library reduce		/ use	ed parts can be created/lead time is		
		2	2 Standardisation of designs/easier to edit work/easier to create new design from existing designs.					
		3	transfe		wee	designs is easier/easier and quicker to n offices/easier to work on collaborative tions.	KI 3	
	(b)	1	of syst		ked	using work to be <u>lost</u> or <u>corrupted</u> /possibility /training time/training cost/upgrade patibility.		
		2	Possib proble	-	ss d	ue to system <u>crash</u> /data security can be a		
		3	Consta	ant need to up	odate	e software or hardware.	KI 3	
	(c)	Device	e 1	Digitiser	J	Digital camera		
		Device	2	Scanner	ſ	not handheld/flatbed scanner as a combination	KI 2	
	(d)	In case of data loss, so that all work is not lost.				work is not lost.	KI 1	
	(e)	Pen m	oves in	one axis, pap	oer n	noves in other axis.	KI 1	
						TOTAL KI 10		
2.	(a)	Answe	er 1	3				
		Answe	er 2	6			KI 2	
	(b)	Isomet	tric				KI 1	
	(c)	Orthographic					KI 1	
	(d)	To show that the drawing is in third angle projection.				KI 1		
	(e)	Section	n AA	9				
		Section	n BB	12			KI 2	
	(f)	Answe	er 1	The size of t	he o	bject being drawn		
		Answe	er 2	The size of t required	he p	aper being used/the amount of detail	KI 2	
	(g)	The dr	awing is	s full size/true	size	ð.	KI 1	

TOTAL KI 10

3.	(a)			imation, you interact with simulation ie you affect the e simulation.	KI 1	
	(b)	1		fer than driving a real racing car, ie different dangerous ons can be simulated safely.		
		2	It is ch	eaper than driving a real car.	KI 2	
	(c)			s of the car can be tested/how the car would behave in a n can be tested.	KI 1	
	(d)	•		istic impression of what the interior or exterior of the building e/to help with the promotion/sale of the building.	KI 1	
	(e)	Industry Example		Film making		
				Cartoon production or creating special effects that could not otherwise be created		
				or any valid answer with a correct example. Do not give a ndustry unless there is a valid example.	KI 2	
	(f)	Adva	ntage	Easier to change features of the design/easier to transport/easier to store		
		Disadvantage		Cannot be touched/easier to steal designs/need for a computer with the correct software in order to view.	KI 2	
	(g) Model 1 Model 2		el 1	Wire Frame		
			el 2	Solid/Surface or Surface Rendered		
				TOTAL KI 11		
4.	(a)	(i)	DTP			
		(ii)	CAD/2D	CAD/3D CAD/Modelling		
		(iii)	Illustrati	on/Paint/Modelling	KI 3	
	(b)	Devic	ce 1	Inkjet		
	Device 2		ce 2	Laser		
	(c)			vare applications use the same operating system/data can r exported between the different software applications.	KI 1	
	(d)	Layering		Different aspects of a drawing can be drawn separately within the drawing allowing them to be viewed separately or together.		
				0		
		Exam	nple	Any valid answer ie building drawing with the walls, foundations, electrics, plumbing etc drawn on separate layers.	KI 2	

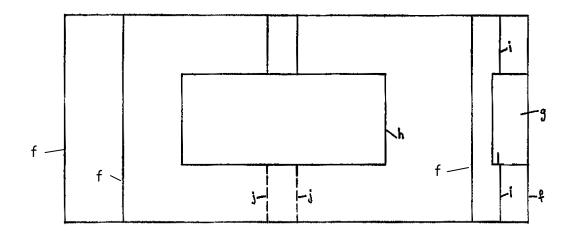
TOTAL KI 9



### Elevation

(a)	base length & height (140 × 60)	1
(b)	semi circle	1
(c)	line shown (120)	1
(d)	sloping line, correct position	1
(e)	hidden detail (5 or 6 lines for 1 mark)	1
. ,		

DA 5

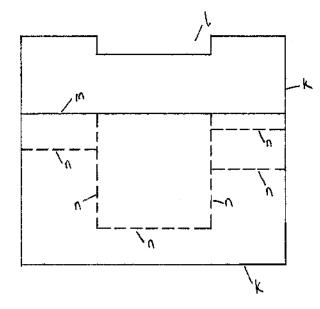


## Plan

length & breadth (3 from 4) 70 mm	
(lose f if rotated)	1
sloping section, position & size	1
insert, position & size (full)	1
lines shown (both) or if (g) incorrect	
then give (i)	1
hidden detail (both lines)	1
, , , , , , , , , , , , , , , , , , ,	
	(lose f if rotated) sloping section, position & size insert, position & size (full) lines shown (both) or if (g) incorrect then give (i)

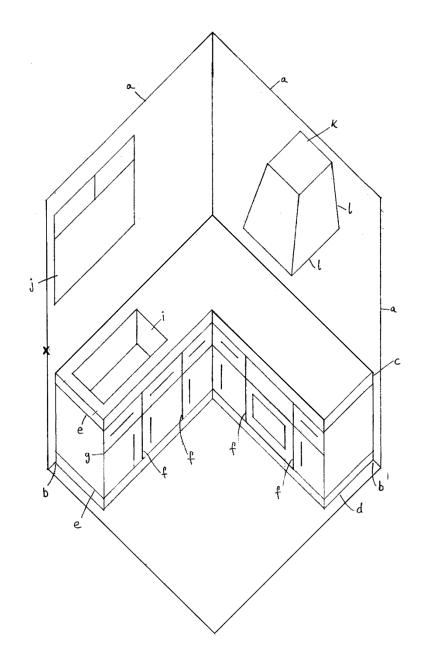
DA 5

#### **Question 5 (continued)**



#### End Elevation

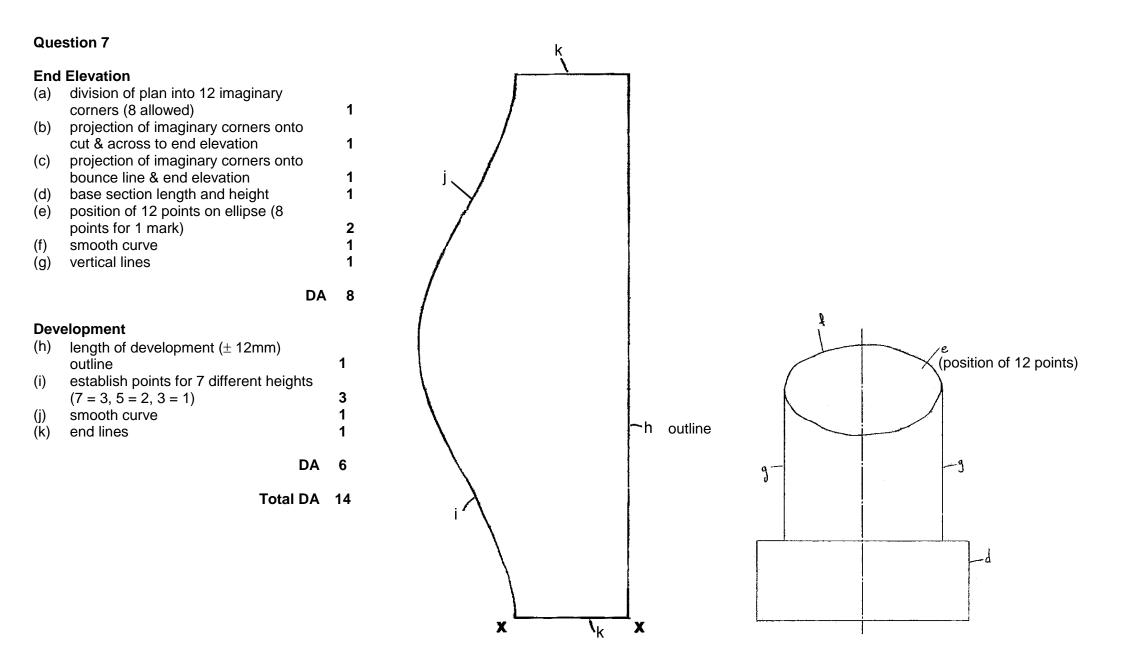
- (k)length & breadth1(l)cut-out shown (size & position)1(m)line shown1(n)hidden detail (5 or 6 lines for 1 mark)1
  - DA 4
  - TOTAL DA 14

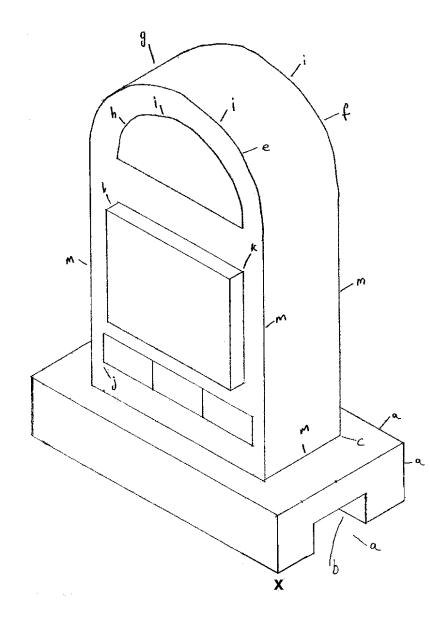


#### Question 6

(a)	length, breadth & height of walls	
	(2 from 3)	1
(b)	position of units from any corner	1
(C)	height of units (consistent throughout)	1
(d)	depth of units (consistent throughout)	1
(e)	kickboard and worktop shown throughout	
	units (ends included and correct height)	1
(f)	position of 4 door vertical lines (all 4)	1
(g)	height of drawers shown throughout	
	units	1
(h)	handles shown (10 represented) and	
	oven door (FTE)	1
(i)	sink position, size and depth relative to	
	one corner	1
(j)	window position and size	1
(k)	cooker hood position and top 4 corners	1
(I)	cooker hood bottom 3 corners (plus 3	
	diagonal straight lines)	1

Total DA 12





### **Question 8**

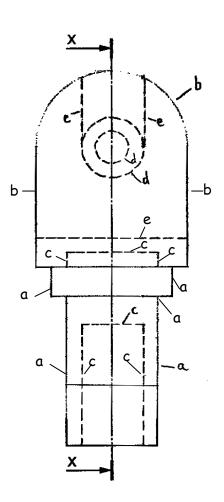
(a)	base section length, height & breadth (all 3)	1
(b)	recess position, size and through line shown	1
(c)	position of top section correct from any corner	1
(d)	division of semi circles shown on elevation	1
(e)	establish points for outside semi-circle (7 for 2, 5 for 1)	2
(f) (g)	establish points for back curve (all) tangent line shown	1 1
(h)	establish points for inside semi-circle (7 for 2, 5 for 1)	2
(i) (j)	smooth curves shown (3 for 2, 2 for 1) buttons position and size	2 1
(k)	middle section position and size (can be surface detail only)	1
(l) (m)	correct depth shown outside casing lines shown (all 5)	1 1

Total DA 16

#### **Question 9**

#### **End Elevation**

- (a) base height (4 from 5)
- (b) body semi-circle (R25) + 2 vertical lines
- (c) hidden detail base (3 from 6)
- (d) hidden detail pin (2 for 1 mark)
- (e) hidden detail slot (all 3)



#### Sectional Elevation on X-X

1

1

1

1

1

DA 5

- (f) base vertical lines (8 for 2, 5 for 1)
  (g) base horizontal lines (5 from 7 for 1 mark)
- (h) body vertical lines (5 from 7 for 1 mark)
- (i) body horizontal lines (5 from 6 for 1 mark)
- (j) pin vertical lines (5 from 6 for 1 mark)
- (k) pin horizontal lines (5 from 6 for 1 mark)
- (I) hatching BS body
- (m) hatching to correct BS to base
- DA 9

2

1

1

1

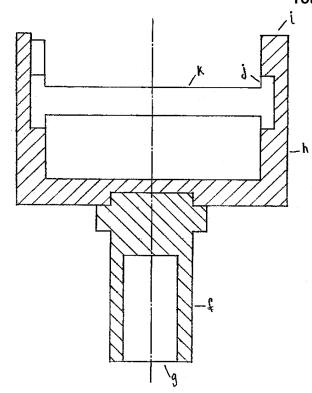
1

1

1

1

Total DA 14



[END OF MARKING INSTRUCTIONS]

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