

2013 Graphic Communication Standard Grade Credit Finalised Marking Instructions

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Part One: General Marking Principles for Graphic Communication Standard Grade Credit

This information is provided to help you understand the general principles you must apply when marking candidate responses to questions in this Paper. These principles must be read in conjunction with the specific Marking Instructions for each question.

- (a) Marks for each candidate response must <u>always</u> be assigned in line with these general marking principles and the specific Marking Instructions for the relevant question. If a specific candidate response does not seem to be covered by either the principles or detailed Marking Instructions, and you are uncertain how to assess it, you must seek guidance from your Team Leader/Principal Assessor.
- (b) Marking should always be positive ie, marks should be awarded for what is correct and not deducted for errors or omissions.

GENERAL MARKING ADVICE: Graphic Communication Standard Grade Credit

The marking schemes are written to assist in determining the "minimal acceptable answer" rather than listing every possible correct and incorrect answer. The following notes are offered to support Markers in making judgements on candidates' evidence, and apply to marking both end of unit assessments and course assessments.

Part Two: Marking Instructions for each Question

1	а		 Ability to create a library of commonly used parts/Ease of storage/Greater accuracy/more accurate 	KI 3
			Easier to edit drawings/Creation of new design from existing/ Standardisation/layering	
			Easier to send drawing to other places using <u>e-mail</u>	
1	b		Possibility of data loss/Set-up costs/ Cost of hardware/cost of software	KI 3
			Possibility of system failure/crash Data security/cost of training	
			3. Hacking/Viruses etc.	
1	С		Device 1 Scanner/Digital camera	KI 2
			Device 2 Digitiser	
1	d	ı	DTP	KI 1
1	d	ii	CAD/3D Modelling	KI 1
1	d	iii	Illustration/Paint/3D modelling	KI 1

Total KI 11

2	а		View 1	Exploded	l Isometric/Exploded	KI 2	
			View 2 Isometric/Se	Sectiona ction/Sec			
2	b		Purpose of	View 1	To show how the parts fit together	KI 2	also, to show parts more clearly
			Purpose of	View 2	To show details that would not be seen in the ordinary isometric. To be able to see details of the inside of the component.		
2	С		Drawing A	Orthog	<u>ıraphic</u> Views	KI 1	
2	d		Answer 1	Drum		KI 2	
			Answer 2	Flatbe	d		
2	е	i	Planometric			KI 1	
		ii	45°			KI 1	
2	f		The drawing object being		nes the size of the	KI 1	

Total KI 10

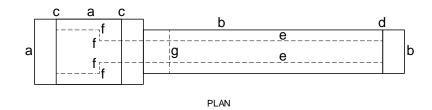
3	а	The work being done by the designers in the different countries could be sent to each other via the internet/Faster to communicate design changes or improvements to each other/Design work will be completed faster so lead time will be reduced	KI 1
3	b	Ease of storage and transportation	KI 1
3	С	Answer: Can not be handled (1)	KI 2
		Answer: Need to have the correct software and can only be viewed on a computer (1)	
3	d	In case any of the day's work is lost/to protect the company from data loss	KI 1
3	е	1. Wire frame	KI 3
		2. Solid	
		Surface Rendered/Surface/Surface model	
3	f	Animation is watched, simulations can be interacted with/You can affect the outcome of a simulation. You can only watch an animation.	KI 1
3	g	They could use an animation as part of a sales advert/They could use an animation to demonstrate or show features/They could use an animation to give instructional information about the product. Advertising.	KI 1

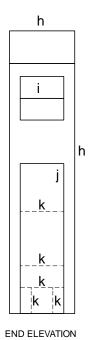
Total KI 10

4	а	Answer 1	3	KI 2
		Answer 2	4	
4	b	Isometric		KI 1
4	С	Pictorial		KI 1
4	d	Answer 1	The size of the paper being used	KI 2
		Answer 2	The size of the object being drawn/The amount of detail needing to be shown	
4	е	be able to und understanding	e that reads the drawing will lerstand conventions. Makes the drawing easier as s the same conventions.	KI 1
4	f		20	KI 2

ELEVATION

Total KI 9





Question 5 Plan

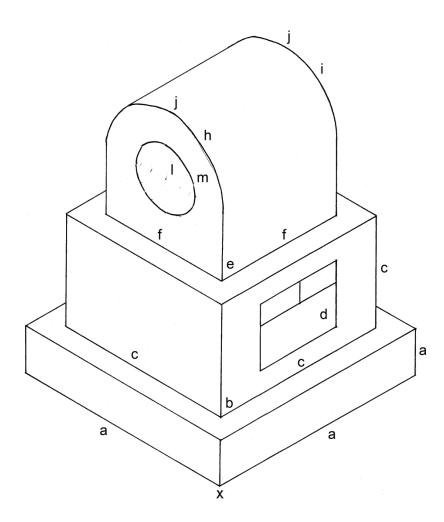
(a)	length and width		1
(b)	length, width & position		1
(c)	lines (both)		1
(d)	line		1
(e)	hidden lines (both)		1
(f)	hidden line (all four)		1
(g)	hidden line		1
		DA	7
		2,1	•
Fnd	Flevation		

End Elevation

(h)	height and width	1
(i)	height, width & position	1
(j)	height, width & position	1
(k)	hidden lines (5 for 2, 3 for 1)	2

DA 5

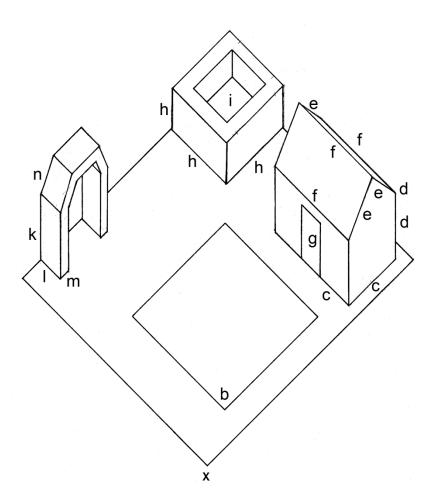
Total (DA 12)



Question 6

Isometric

(a)	crate length, width & height (3 for 2, 2 for 1)	2
(b)	Position	1
(c)	crate length, width + height (3 for 2, 2 for 1)	2
(d)	window size and position	1
(e)	position	1
(f)	length and width	1
(g)	construction for isometric semi-circle/	1
	circle	
(h)	establish 7 points on curve (7 for 2, 5 for 1)	2
(i)	establish back curve points and	1
	tangent line	
(j)	smooth curves (2 from 3)	1
(I)	establish 12 points on circle (12 for 2, 8 for 1)	2
	DA	15



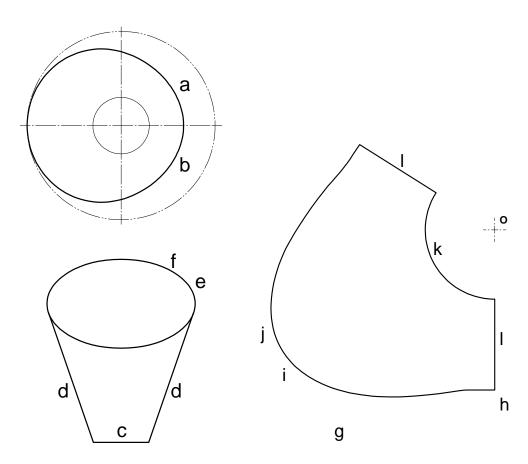
Question 7

Planometric

(a)	garden length and width	1
(b)	lawn length, width and position	1
(c)	length and width of shed	1
(d)	correct heights (both)	1
(e)	diagonal lines to apex shown (all four)	1
(f)	45° roof lines shown (all three)	1
(g)	door size and position	1
(h)	length, width and height of flower bed	2
	(3 for 2, 2 for 1)	
(i)	flower bed recess shown	1
(k)	six vertical lines (5 or 6 for 1)	1
(I)	six 45° lines (5 or 6 for 1)	1
(m)	six 45° lines (4 or 5 for 1)	1
(n)	angled lines (4 or 5 for 1)	1

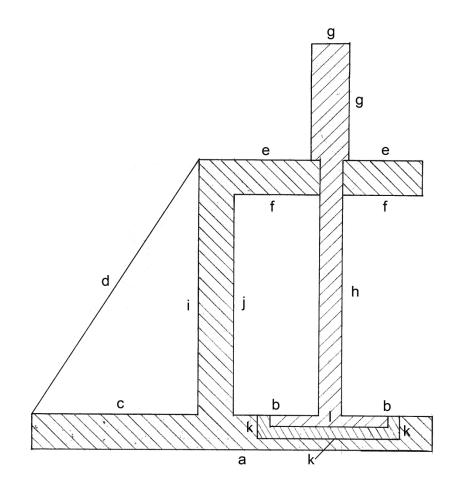
DA 14

Question 8



Plan

		DΛ	15
(1)	lines shown		1
(k)	top curve		1
(j)	smooth curve		1
	for 1)		
(i)	7 key heights established (7 for 2,	5	2
(h)	true length used at all points		1
(g)	correct circumference		1
	ace development		
(f)	smooth curve		1
(e)	establish 12 points (12 for 2, 8 for	1)	2
(d)	diagonal lines (both)		1
(c)	horizontal line		1
	Elevation		_
(b)	smooth curve		1
(a)	establish 12 points (12 for 2, 8 for	1)	2



Question 9 Sectional

	Total	14
(n)	hatching to correct BS	1
(m)	hatching shown	1
(I)	stopper thickness shown	1
(k)	stopper diameter and height	1
	height	1
(h) (i) (j)	height	1
	diameter and height	1
(g)	diameter and height	1
(f)	length	1
(d) (e)	length	1
d)	diagonal line	1
(c)	length	1
b)	length	1
(a)	length	1

[END OF MARKING INSTRUCTIONS]