

## **2009 Graphic Communication**

### Standard Grade - Credit

## **Finalised Marking Instructions**

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# **2009 Graphic Communication SG Credit Marking Instructions**

**1** (a) 1 Designs are easier to edit/Drawings are more accurate/ Standardisation of drawings 2 New designs from existing/Library of commonly used parts can be created/Reduced lead time 3 Drawings are easier to store/Drawings can be sent to other locations by e-mail KI 3 **(b)** 1 Time taken to learn how to use the software/Cost of the software, continual need to update software 2 Accidental data loss/Security of data (hacking) 3 KI 3 Viruses DTP **(c)** (i) (ii) CAD KI 3 Ilustration/Paint/3D modelling package (iii) KI 1 (d) Scanner/Digitiser/Digital Camera The different software use the same operating system/Data can be imported between the different software packages. KI 1 **TOTAL KI 11** 2 (a)

AREA	COLOUR	REASON FOR CHOICE
Interior walls	Yellow	Bright and cheerful
Floor covering	Blue	Cool and reliable/ contrast with walls
Ceiling	White	Represents cleanliness
Brochure Display Area	Blue-Violet	In harmony with the floor (Blue)/contrast with walls
Shop Front	Red	Exciting/Vibrant/Active
First Aid Cabinet	Green	Associated with safety

KI 6

(b) Advancing: Red/Yellow

Receding: Blue/Blue-Violet/Green

KI 2

(c) Green/Blue-Green/Blue-Violet/Violet

KI 1

(d) Add a primary and secondary colour together

KI 1

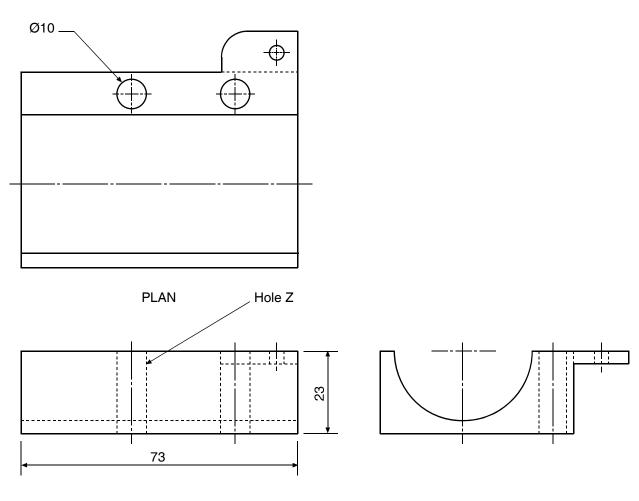
(e) Visual excitement

KI 1

3	(a)	1	Ease of editing/Ease of testing		
		2	Ease of storage/Ease of transporting		KI 2
	<b>(b)</b>	Comp	ater models cannot be touched, no physical interaction		
		Could	be more easily stolen, data could be corrupted		KI 2
	(c)	1	Wireframe/Solid		
		2	Surface/Surface-rendered		KI 2
	(d)		ulation you interact with the software, in animation you only ne images.		
		You ca	an affect the outcome in simulations, you can't in animations.		KI 1
	(e)		imation could be used for promotional purposes/To help in the ting of the car.		KI 1
	<b>(f)</b>		the car's aerodynamics/To test how the car would react in a situation.		KI 1
				TOTAL KI 9	
4	(a)	(1)	2		
		(2)	6		KI 2
	<b>(b)</b>	Isomet	ric		KI 1
	<b>(c)</b>	(1)	The size of the object being drawn		
		(2)	The size of the paper being used for the drawing/The amount of detail required for the drawing		KI 2
	( <b>d</b> )	becaus	f reading the drawings/Drawing can be easily understood the the same symbols and conventions are used no matter who the drawing.		KI 1

**(e)** 

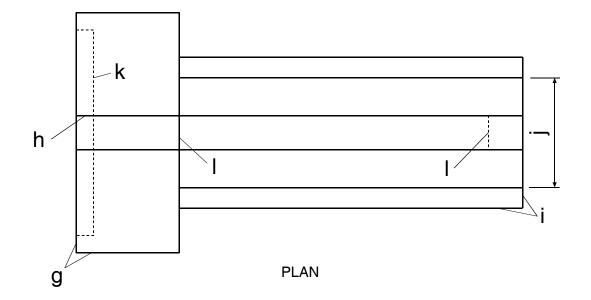
## Drawing X



ELEVATION END ELEVATION

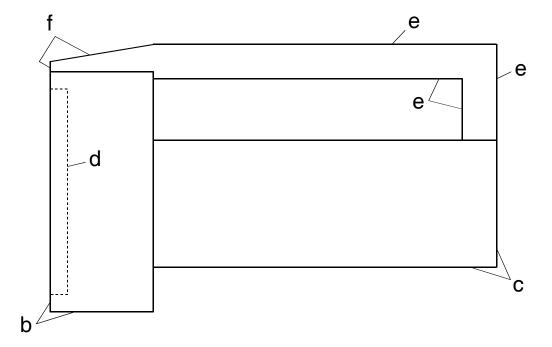
KI 3

TOTAL KI 9



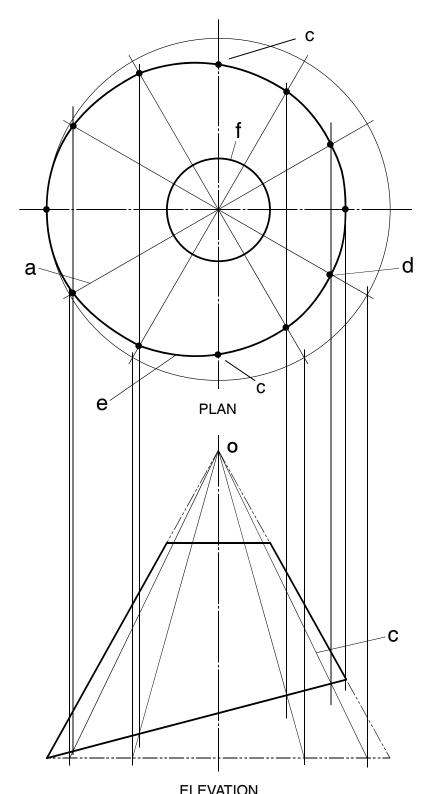
#### **Question 5**

<b>(l)</b>	Handle lines (both; 1 hidden)	DA	6	
(I)	II and la line a (bath, 1 bidden)		1	
(k)	Lens hidden detail		1	
<b>(j</b> )	Width of flat (2 lines)		1	
(i)	Body length + width		1	
(h)	Handle position length + width		1	
<b>(g)</b>	Length + width		1	



(a)	Correct projection		1	
<b>(b)</b>	Height + width		1	
<b>(c)</b>	Body height + width		1	
<b>(d)</b>	Lens hidden detail (3 lines)		1	
<b>(e)</b>	Handle (4 lines)		1	
<b>(f)</b>	Slope on handle (2 lines)		1	
	_	$\mathbf{D}\mathbf{A}$	6	

ELEVATION

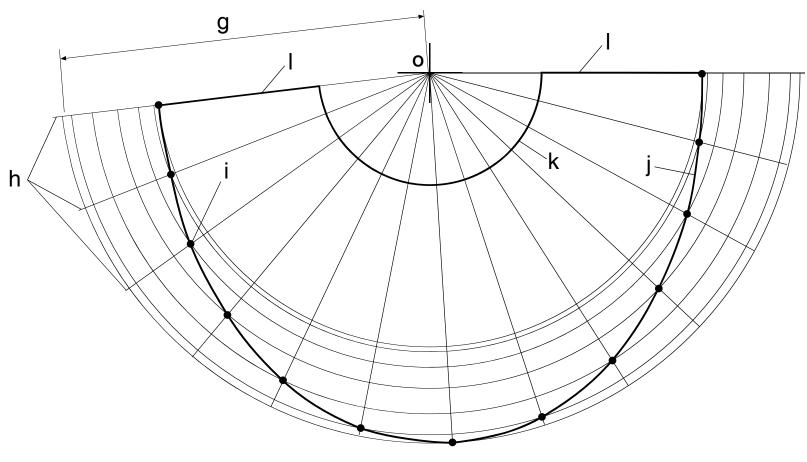


#### Question 6 (a)

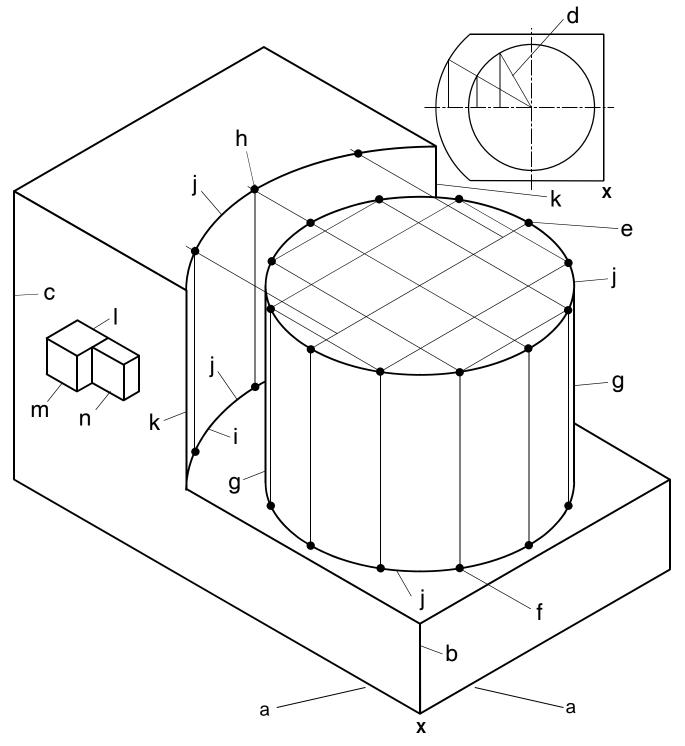
(a)	Divide plan (generators)		1	
<b>(b)</b>	Project div onto elevation + apex		1	
<b>(c)</b>	Two points on curve		1	
<b>(d)</b>	Establish other points on curve			
	(6 points for 1; 10 for 2)		2	
<b>(e)</b>	Good freehand curve		1	
<b>(f)</b>	Circle		1	
		DA	7	

#### Question 6 (b)

<b>(g)</b>	True length used to draw arc		1	
<b>(h)</b>	12 div; correct length 12		1	
(i)	Establish points on curve			
	(8 points for 1; 12 for 2)		2	
<b>(j)</b>	Good free hand curve		1	
( <b>k</b> )	Semi circle		1	
<b>(l)</b>	Outline		1	
		DA	7	

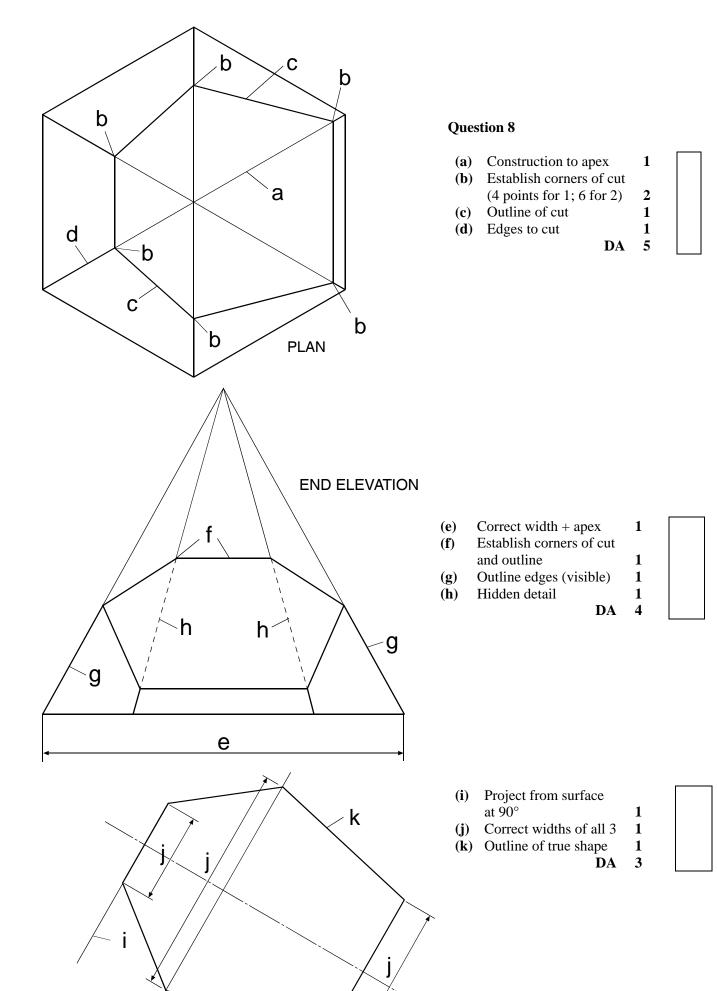


SURFACE DEVELOPMENT



#### **Question 7**

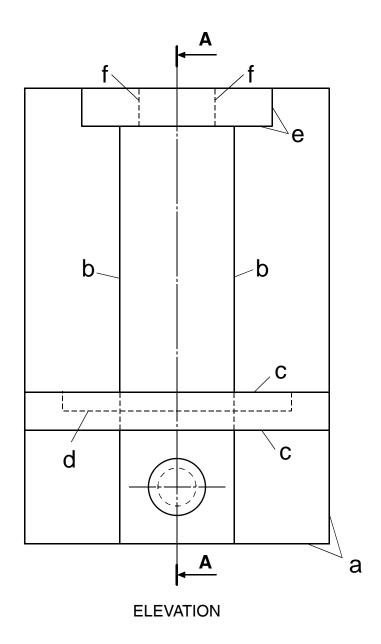
(a)	Length + breadth of crate	1	
<b>(b)</b>	Height	1	
(c)	Height	1	
<b>(d)</b>	Construction for full		
	circle	1	
<b>(e)</b>	Establish points for circle		
	(8 points for 1; 12 for 2)	2	
<b>(f)</b>	Establish part curve	1	
<b>(g)</b>	Tangent lines (both)	1	
(h)	Establish points on curve	1	
<b>(i)</b>	Establish part curve	1	
<b>(j</b> )	Good freehand curves		
_	(2/4 for 1; 4/4 for 2)	2	
(k)	Lines (both)	1	
<b>(l)</b>	Buttons as surface detail		
	+ pos	1	
( <b>m</b> )	Button 10 mm depth	1	
(n)	Button 5 mm depth	1	
	DA	16	



TRUE SHAPE OF NAME PLATE

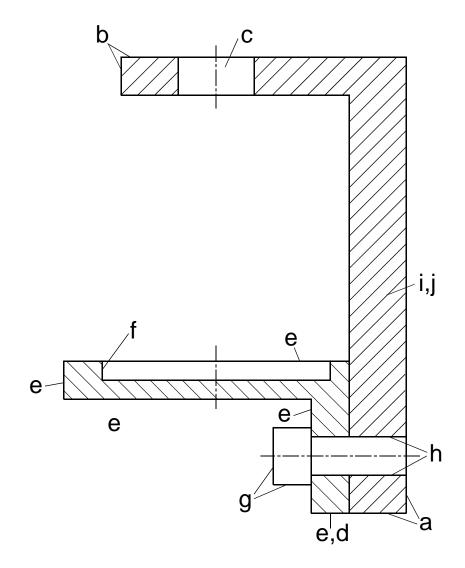
#### Question 9 (a)

(a)	Length + height	1	
<b>(b)</b>	Two vertical lines (part		
	hidden)	1	
(c)	Lines (2 of)	1	
<b>(d)</b>	Hidden detail of recess	1	
(e)	Rectangle length + height	1	
<b>(f)</b>	Hidden detail (2 of)	1	
	DA	6	



#### Question 9 (b)

(a)	Height + width	1	
<b>(b)</b>	Height + width	1	
(c)	Hole (outline and correct		
	position)	1	
( <b>d</b> )	Support in correct position	1	
(e)	Support outline (5 lines)	1	
<b>(f)</b>	Recess (all 3 lines; outline)	1	
<b>(g)</b>	Pin head (correct size and		
	position)	1	
<b>(h)</b>	Lines	1	
(i)	Hatching shown	1	
<b>(j)</b>	Hatching correct to BS conv	1	
-	DA	10	



SECTIONAL END ELEVATION ON A-A

[END OF MARKING INSTRUCTIONS]