



2013 Graphic Communication

Intermediate 2

Finalised Marking Instructions

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Part One: General Marking Principles for Graphic Communication Intermediate 2

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.

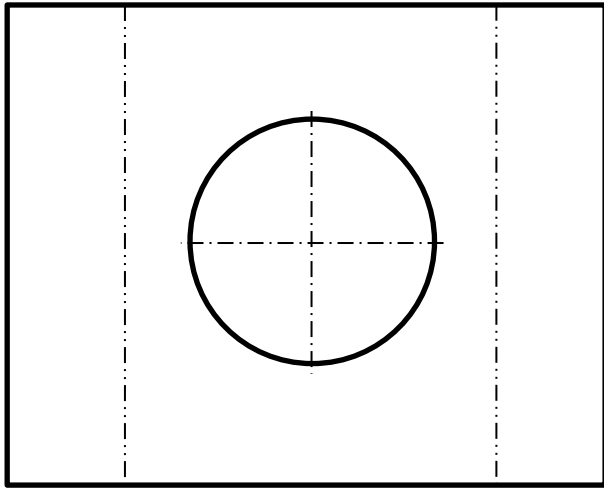
- (a)** Marks for each candidate response must always be assigned in line with these general marking principles and the specific Marking Instructions for the relevant question. If a specific candidate response does not seem to be covered by either the principles or detailed Marking Instructions, and 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 Intermediate 2

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

Question	Expected Answer/s	Max Mark	Additional Guidance
1	<p>Symbol type: Warning (1 mark) Colour: Yellow (1 mark)</p> <p>Symbol type: Mandatory (1 mark) Colour: Blue (1 mark)</p> <p>Symbol type: Prohibition (1 mark) Colour: Red (1 mark)</p> <p><i>6 @ 1 mark for each correct answer</i></p>	6	
2	<p>A. Radiator (1 mark) B. Washbasin (1 mark) C. WC (1 mark) D. Lamp (1 mark) E. Shower tray (1 mark)</p> <p><i>5 @ 1 mark for each correct answer</i></p>	5	

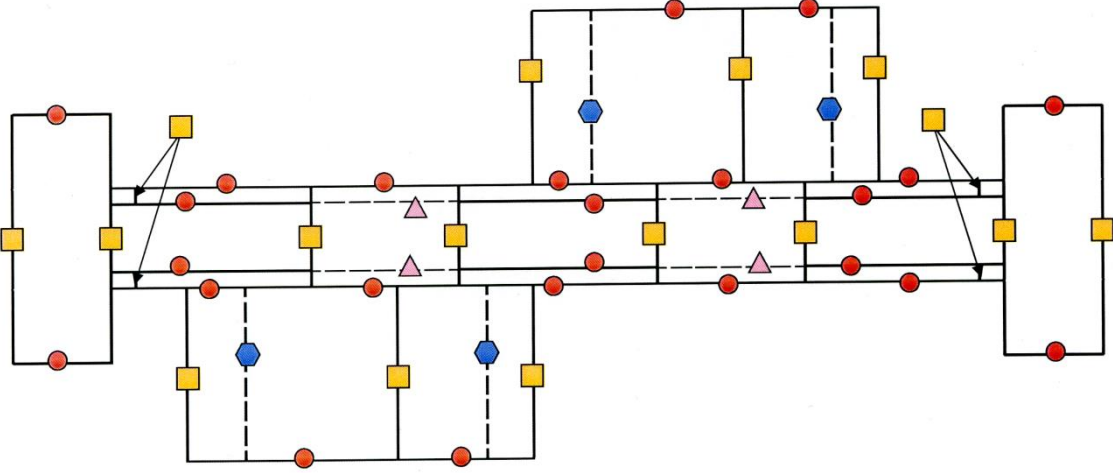




Question		Expected Answer/s	Max Mark	Additional Guidance
3	a	X Centre line (1 mark) Y Outline (1 mark)	2	
	b	2 fold lines marked as shown 		
	c	Third angle projection symbol	1	
			(4)	

Question	Expected Answer/s	Max Mark	Additional Guidance	
4	<div data-bbox="352 309 746 864" style="border: 1px solid black; padding: 5px;"> <h2 style="text-align: center;">Track Cycling</h2>  <p>Track racing takes place on the oval-shaped velodrome. The first World Championships were held in 1880. Track cyclists are powerful athletes, generally with far more muscle bulk than "road racers".</p> <p>SPRINT EVENTS</p> <p>INDIVIDUAL SPRINT (part of the Olympic programme): Qualification consists of flying start 200 m time trial. There are three heats of 3 riders each. The best two riders qualify out of three heat. Sometimes riders will come to a situation in an effort to reach the opponent's track time, which is the least advantageous position before the final sprint to the finish line.</p> <p>TEAM SPRINT (part of the Olympic programme): The specialty is used by teams of three riders over three laps of the track (for women, 2 riders over 2 laps). Each rider leads for his/her own team, leading the other two riders. The 2 best teams line up to compete. Those who line up to the first and 4th finish their race and a 3rd which decides the last place available on the podium.</p> <p>KILOMETRE (for 500 m for women): This is an individual time trial from a standing start. The competitor with the lowest time is the winner.</p> <p>KEirin (part of the Olympic programme): Riders racing against 10 human, 3 and 7 riders compete for a sprint race of 100-150 m after being followed in the slipstream of a pecking order for the first 1,000 m. The motorcade gradually increases the speed from 50 to 50 km/h (25 to 45 km/h for women).</p> <p>ENDURANCE EVENTS</p> <p>INDIVIDUAL PURSUIT: Two riders start on opposite sides of the track and compete over 4 km (3 km for women). The winner is the rider who manages to catch his/her opponent or who records the fastest time.</p> <p>POINTS RACE: The final result is determined according to points gained during sprints (one every 10 laps of 250 m) and time by time. At the UCI-PCSU Championship, the distance is 16 km for men and 10 km for women.</p> <p>HANDICAP: Up to 24 teams of two riders take part in this relay race conducted by means of intermediate sprints. While one team member races, the other stays down to take a rest. The classification is established according to the distance covered and the points won in the sprints. The handicap is held over a distance of 25-30 km for the men depending on the competition.</p> <p>SCATCH RACE: This is race for up to 24 individual riders over 25 km (for men) and 10 km for women. The first lap is neutralised.</p> <p>COMBINED EVENT</p> <p>OMNIAUM (part of the Olympic programme): The competitor's race is up of 6 events and is completed over 2 consecutive days. The final classification is established by adding up the finishing places in each event. The winner is the rider who has the lowest total.</p> <p>MEN'S</p> <ul style="list-style-type: none"> • Flying lap • Points race (50 km) • Individual time • Individual race • Individual pursuit (4 km) • Scratch race • 500 m time trial <p>WOMEN'S</p> <ul style="list-style-type: none"> • Flying lap • Points race (25 km) • Individual time • Individual pursuit (3 km) • Scratch race • 500 m time trial <p style="text-align: center;">GLASGOW 2014</p> </div>	<p>(c) Gradient fill</p> <p>(a) Column</p> <p>(e) Caption</p> <p>(d) Gutter</p> <p>(b) Footer</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	
		(5)		

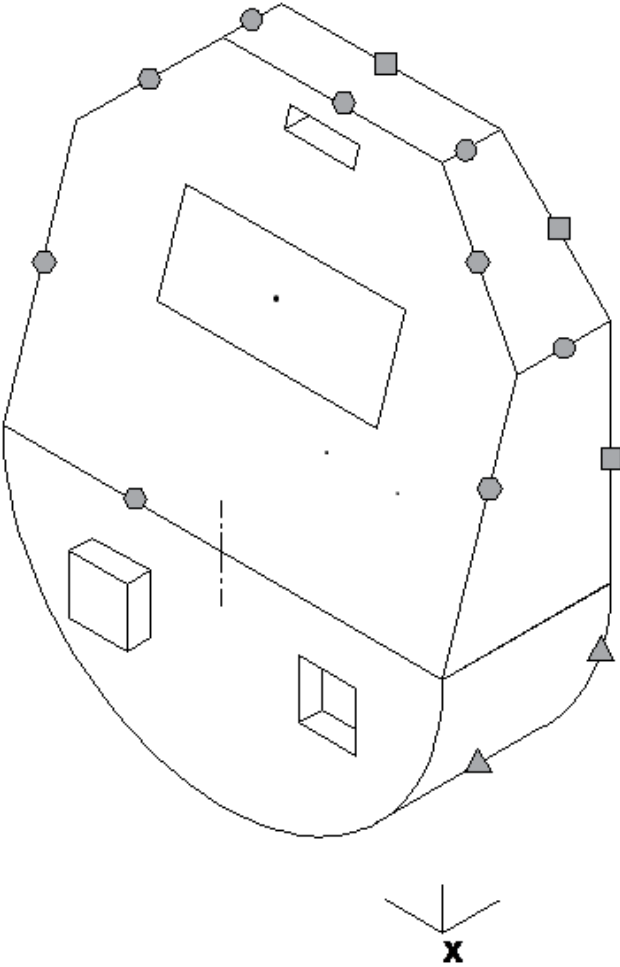


Notes for drawing questions:



- Tolerances for all drawing $\pm 1\text{mm}$
- When marking drawings, all markers must operate the “follow-on rule” and ensure that candidates are **not** penalised twice.
- Marks should be entered in the appropriate place and no other comments added to the candidates scripts.

Starting Blocks

Question	Expected Answer/s	Max Mark	Additional Guidance
5	 <p style="text-align: center;">PLAN</p>		
a	<p>18 Vertical Lines </p> <p>16-18 = 4 marks 13-15 = 3 marks 10-12 = 2 marks 7-9 = 1 mark</p>	4	
b	<p>24 Horizontal Lines </p> <p>21-24 = 4 marks 17-20 = 3 marks 13-16 = 2 marks 9-12 = 1 mark</p>	4	
c	<p>4 Vertical Hidden Detail Lines </p> <p>All 4 lines = 2 marks 2-3 lines = 1 mark</p>	2	
d	<p>4 Horizontal Hidden Detail Lines </p> <p>All 4 lines = 2 marks 2-3 lines = 1 mark</p>	2	
		(12)	

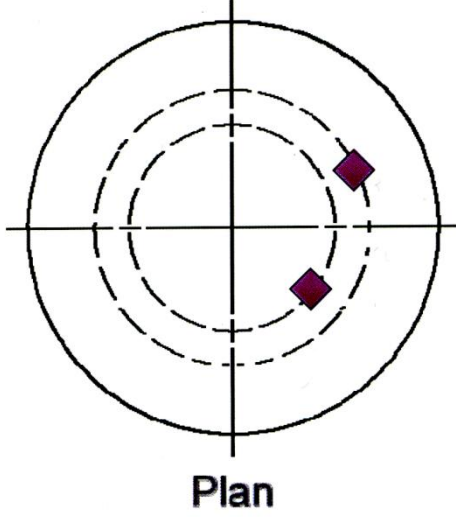

Isometric Stop Watch

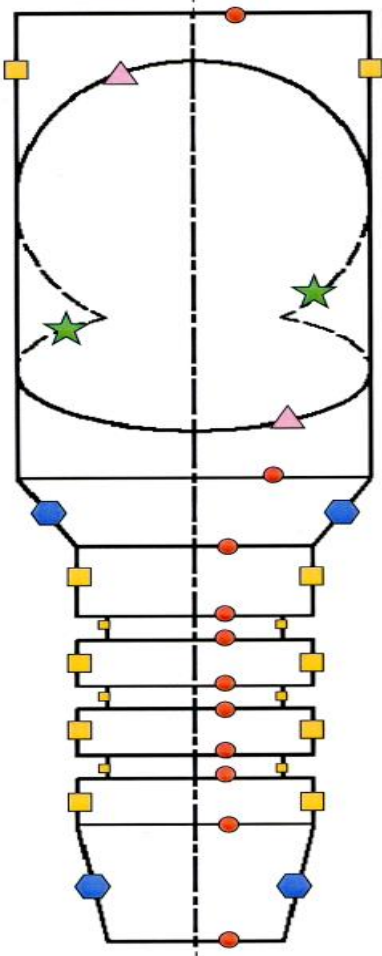



Question	Expected Answer/s	Max Mark	Additional Guidance
6	 <p style="text-align: center;">Isometric View</p>		
a	Construction for front isometric curve	1	
b	Front isometric curve 7 points = 2 marks 5-6 points = 1 mark	2	
c	Projection back for rear isometric curve 	1	
d	Rear outline  3 lines for 1 mark	1	



Question		Expected Answer/s	Max Mark	Additional Guidance
6	e	Projection for front sloping face  3 lines = 2 marks 2 lines = 1 mark	2	
	f	Front sloping face outlines  5-6 lines = 1 mark	1	
	g	Screen (4 lines) Correct width and height = 1 mark Correct position = 1 mark	2	
	h	Tie chord hole (5 lines) Correct width and height (4 lines) = 1 mark Correct position and depth line = 1 mark	2	
	i	Buttons (must be correct positions) 14-16 lines = 2 marks 11-13 lines = 1 mark	2	
			(14)	

Note: to check for positions, move tracing to best fit once only to check

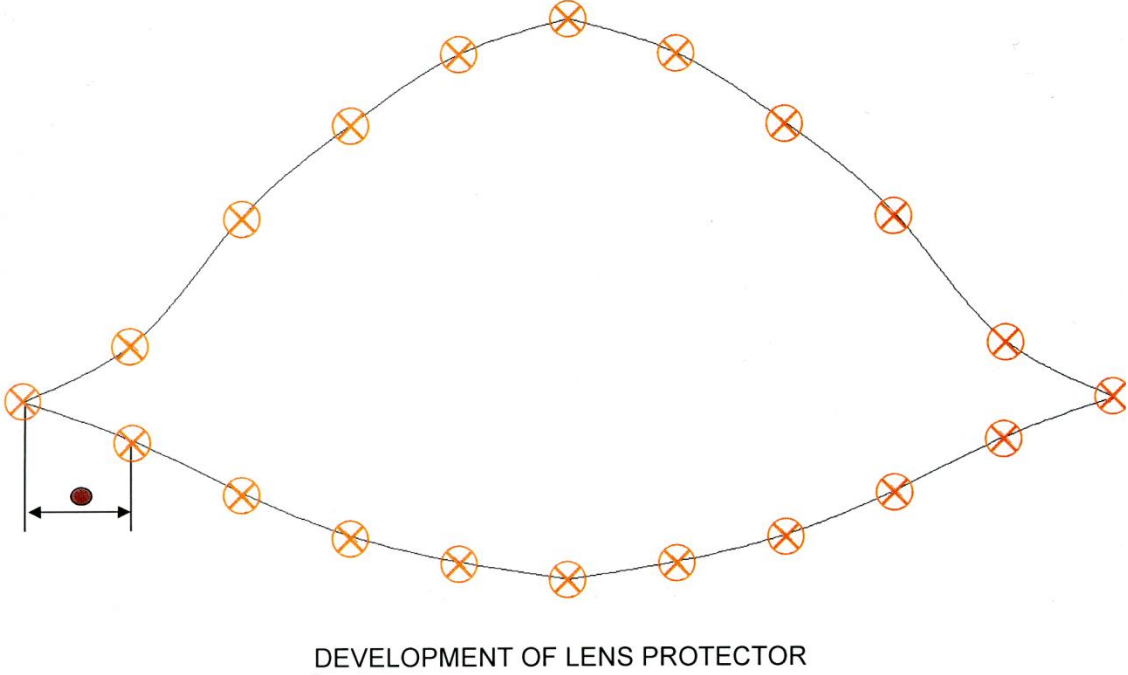


Torch

Question	Expected Answer/s	Max Mark	Additional Guidance
7			
Plan			
a	Hidden detail circles 2 required = 1 mark 	1	

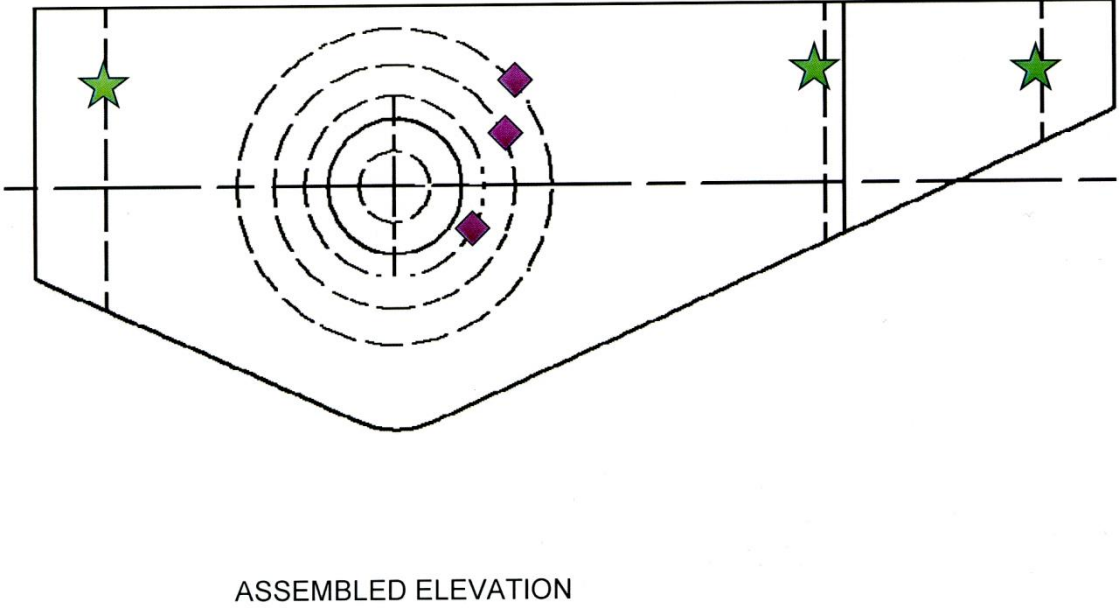


Question	Expected Answer/s	Max Mark	Additional Guidance
7	 <p style="text-align: center;">END ELEVATION</p>		
End Elevation			
b	16 Vertical lines  13-16 = 2 marks 9-12 = 1 mark	2	
c	11 Horizontal lines  9-11 = 2 marks 6-8 = 1 mark	2	
d	4 Angles lines  <i>All 4 required = 1 mark</i>	1	

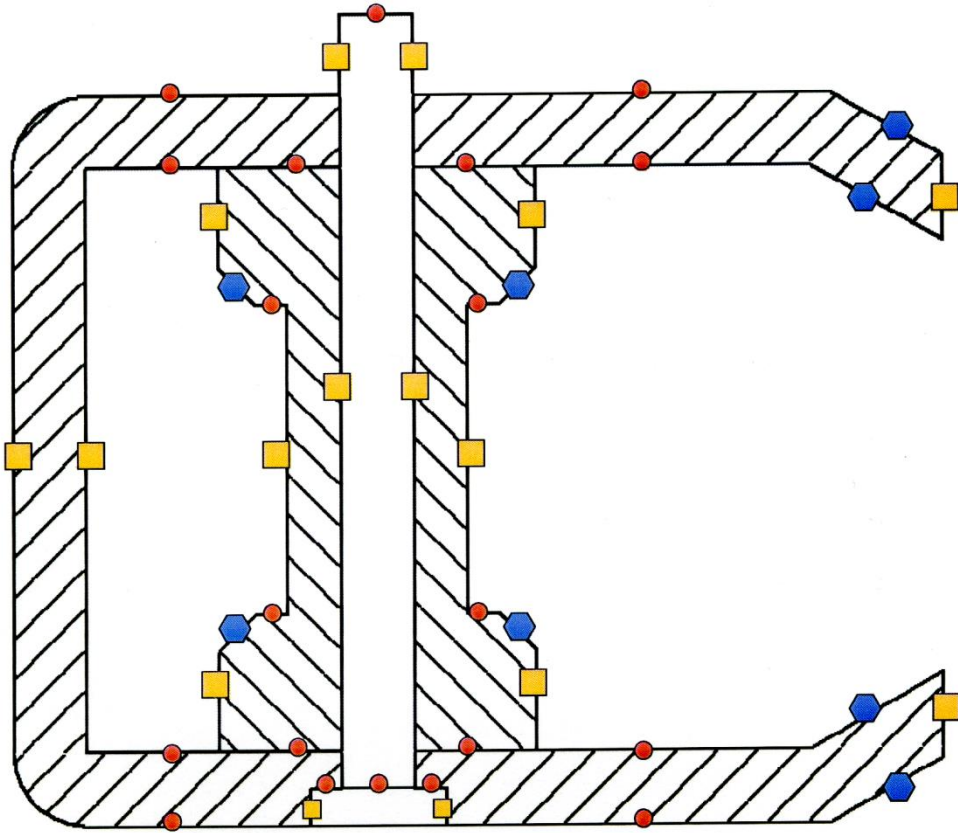
Question		Expected Answer/s	Max Mark	Additional Guidance
7	e	Establish 20 accurate points for curve creation  13-20 points = 2 marks 6-12 points = 1 mark	2	
	f	Rear curve shown as hidden detail 	1	

Torch




Question	Expected Answer/s	Max Mark	Additional Guidance
7	 <p style="text-align: center;">DEVELOPMENT OF LENS PROTECTOR</p>		
g	10 correct divisions (+/- 1mm per division) 	1	
h	20 correct heights 15-20 heights = 2 marks 9-14 heights = 1 mark 	2	
		(12)	

Pedal Assembly

Question	Expected Answer/s	Max Mark	Additional Guidance
8	 <p style="text-align: center;">ASSEMBLED ELEVATION</p>		
Assembled Elevation			
a	3 Vertical hidden detail lines  2-3 = 1 mark	1	
b	3 Circles hidden detail lines  2-3 = 1 mark	1	

Question	Expected Answer/s	Max Mark	Additional Guidance
8	 <p style="text-align: center;">SECTIONAL PLAN ON A-A</p>		

Assembled Sectional Plan on A-A

8	c	16 Vertical lines  12-16 = 2 marks 7-11 = 1 mark	2	
	d	20 Horizontal lines  17-20 = 3 marks 13-16 = 2 marks 9-12 = 1 mark	3	
	e	8 Angled lines  6-8 = 1 mark	1	

Question	Expected Answer/s		Max Mark	Additional Guidance
Hatching of Parts				
8	f	Hatching Hatching correctly applied to BS conventions showing differentiation: Plate & Support + no hatching on pin = 2 marks Plate & Support = 1 mark	2	
	g	Assembly of components All 3 components correctly assembled = 2 marks 2 components correctly assembled = 1 mark	2	
			(12)	

[END OF MARKING INSTRUCTIONS]