



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education (9–1)

DESIGN AND TECHNOLOGY

0979/02

Paper 2 Graphic Products

For examination from 2019

MARK SCHEME

Maximum Mark: 50

Specimen

This document consists of **4** printed pages.

A1 (a) Octagon			
Constructional square 80 A/F	(2)		
Centre determined	(1)		
Arcs drawn	(1)		
Side drawn to arc/square plot	(1)		[5]
(b) Semi-circle			
Semi-circle to length of side	(1)		[1]
(c) Triangles			
Two triangles equilateral	(2)		[2]
			[Total: 8]
A2 (a) lettering			
Accuracy and proportion of:			
K	(1)		
Spacing	(1)		
Height	(1)		[3]
<i>border</i>			
horizontal	(1)		
Repeat angle	(1)		[2]
(b) (i) digital camera / scanner	(1)		[1]
(ii) readily retrieved, can be scaled up/down printed out when needed	(1)		[1]
			[Total: 7]
A3 (a) Isometric rectangular base	(2)		
Top rectangle 40 tall	(1)		
In line with base	(1)		
Central pillar 20 × 30	(1)		
Semi – octagon top evident	(1)		
Construction of octagon evident	(1)		[7]
(b) Pencil tone to rectangle	(1)		[1]
(c) (i) the first trial version	(1)		[1]
(ii) hot wire cutter	(1)		[1]
			[Total: 10]

B4 (a) <i>Development</i>			
Extra sides (7) shown in correct position	(7)		
2 side flaps	(1)		
Radius on side flap	(1)		
Side flaps 45 long	(1)		
Tuck-in flap 10	(1)		
Tuck-in flaps angled	(1)		[12]
(b) <i>Arrow-tabs</i>			
Symmetrical (1)			
Stand off (1)			
Neck (1)	(3)		
Slot size to match neck	(1)		
Min 4 arrow-tabs shown 4 × 1	(4)		[8]
(c) (i) Die stamping / punching	(1)		[1]
(ii) creasing	(1)		[1]
(d) three (3)	(1)		[1]
(e) Halving slots or similar 0–2 PR (repeat of arrow tab/slot = 0)	(2)		[2]
			[Total: 25]
B5 (a) <i>Front view</i>			
Depth of top 40	(1)		
2mm thickness to top surface & base	(1)		
2mm thickness to sides	(1)		[3]
(b) <i>Hole positions and cone C</i>			
Centre line at 50 horizontally	(1)		
Centre of one hole 50 in from RHS	(1)		
Centre of one hole 50 in from LHS	(1)		
Centre line projected to F.E.	(1)		
Cone in position C on PLAN	(1)		
Ø80 circle representing top of cone	(1)		[6]
(c) Ø10 evident in base on FE	(1)		
60° included angle drawn	(1)		
60° included angle drawn through Ø10	(1)		
Ø80 projected from plan 2 × 1	(2)		
Cone complete (2 × sides = 2) (top = 1)	(3)		
Centre line evident	(1)		[9]

(d)	Hole size $\text{Ø}56 \pm 2 \text{ mm}$	(1)	
	In remaining position	(1)	
	Evidence of projection 0–2 pr	(2)	[4]
(e)	<i>Use of:</i> Compass/circle cutter		
	Plotter cutter, single hole punch	(2)	[2]
(f)	<i>Use of:</i> die stamping/cutting machine	(1)	[1]
			[Total: 25]