Section A

Answer all questions in this section.

A1 A cartoon image of a school bus is shown below.



(a) Complete the full-size drawing of the school bus by adding:

(i)	the bumper	[2]
(ii)	the bus outline	[3]
(iii)	the windscreen and eyes	[2]
(iv)	the half octagon	[3]
(v)	the triangular mirrors.	[2]

(b) Complete the full-size drawing of the bus stop sign by adding:

(i)	the hexagon	[3]
(ii)	the post.	[1]



0445/52 © UCLES 2023	May/June 2023 1 hour DC (EF/SW) 312555/3		
Centre Number .		Candidate Number	Candidate Name



A2 The cartoon image will be used on the front cover of a bus timetable.

The bus timetable is a 3-fold leaflet as shown below.



bus timetable

- (a) Complete the full-size development (net) of the bus timetable in the space to the right. [4]
- (b) The timetables will be made from thin card in quantities of 5000.
 - (i) Name **one** suitable method of printing the timetables.
 - (ii) Name **one** suitable method of cutting out the developments (nets) of the timetables.

A3 A diagram is used to show the distance between each stop along the bus journey.

Add the missing stops to the diagram using the information in the table below. [3]

Journey	Distance between stops
Bus Depot to Stop 1	3.0 km
Stop 1 to Stop 2	0.9 km
Stop 2 to Stop 3	1.9 km
Stop 3 to Stop 4	2.2 km
Stop 4 to Final Stop	3.7 km



diagram





(b) The timetable holder will be made from 10 mm clear acrylic.

One side of the holder is shown below.

Render the side to look like clear acrylic.



(e) After vacuum forming, the timetable holder needs to be trimmed

(i) Complete the table by adding a suitable tool/item of equipment for each stage of the process.

[2]

[3]

SS	Tool/item of equipment
xcess plastic	
edges	

(ii) In use, the vacuum formed timetable holder falls over too

Sketch a modification to the design of the timetable holder that will prevent it from falling over. [2]

	For Examiner's use
 ırn over	
	Sheet 2 of 2



el bus shelter will be made from one piece of
e folded into shape as shown below.
of folding the angle of 90°. [3]
adhesive that could be used to join the Styrofoam nboard walls.
S SHELTER label is to be made from nesive vinyl using CAD/CAM.
scribe how the lettering would be applied to the se once it has been produced on a vinyl cutter.
ite one method of accurately applying the BUS ELTER text to the base without the use of D/CAM. [1]