## Section A

Answer **all** questions in this section.

A1 A sign for a cycle lane is shown below.



Complete the full-size drawing of the cycle lane sign by adding:

(a)	the frame	[5]
(b)	the wheels	[3]
(c)	the seat	[2]
(d)	the rectangle below the cycle	[2]
(e)	the outline of the sign.	[4]

(e) the outline of the sign.



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<b>2</b> The cycle lane sign will be mounted onto a rectangular-shaped backboard.		
The rectangular-shaped backboard measures 250 mm $\times$ 150 mm $\times$ 20 mm t	nick.	
Complete the exploded planometric view of the cycle lane sign and rectangular-shaped backboard to a scale of 1:2.	[5]	
(a) The cycle lane sign will be made from a rigid thin plastic sheet.		
(i) State one suitable rigid thin plastic sheet that could be used to make the cycle lane sign.		
	[1]	
(ii) Name a suitable method of printing the design onto the thin plastic sheet.		
	[1]	
(b) Another sign is required to inform people that cycling is not allowed.		
Sketch a modification to the sign below to inform people that cycling is not allowed.	[2]	
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ed planometric view

## Section B

Answer one question, either Question B4 or B5, from this section.

**B4** Orthographic views of a design for a cycle stand are shown below.

The design is made from 25 mm thick softwood.



(c) A design for another cycle stand made from thin sheet metal is shown below.

Complete the development (net) of the cycle stand to a scale of 1:4. [6]

development (net)

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(b) A scale model of the cycle stand is to be made from 12.5 mm thick Styrofoam.

(i) State the scale used to make the model.

(ii) Complete the table to show the processes and tools/items of equipment that would be used to make the model of the cycle stand. [3]

Process	Tools/items of equipment
ut the shapes Styrofoam	marker pen
t the parts	
g the edges of	
e pieces together	

(iii) Explain **one** benefit of making a model of the design.

 [2]

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