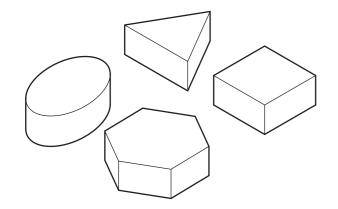
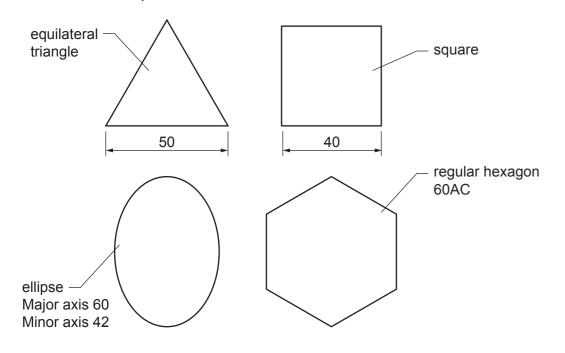
## Section A

Answer all questions in this section.

A1 Four wooden blocks are shown below.



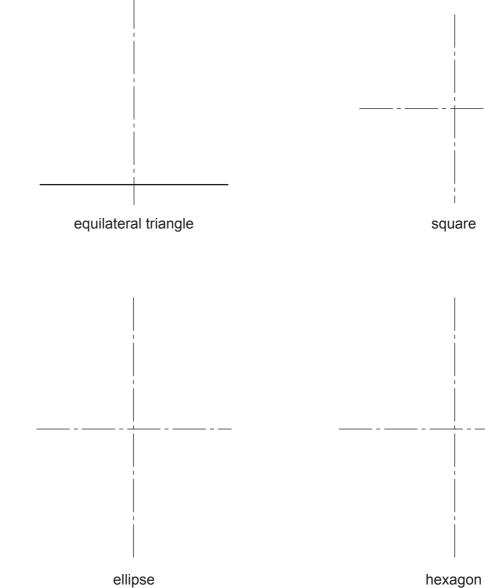
The sizes and shapes of the blocks are shown below.



Complete the full-size drawing of the wooden blocks in the space provided to the right by adding:

(a)	the equilateral triangle	[2]
(b)	the square	[2]
(c)	the ellipse	[6]
(d)	the hexagon.	[3]

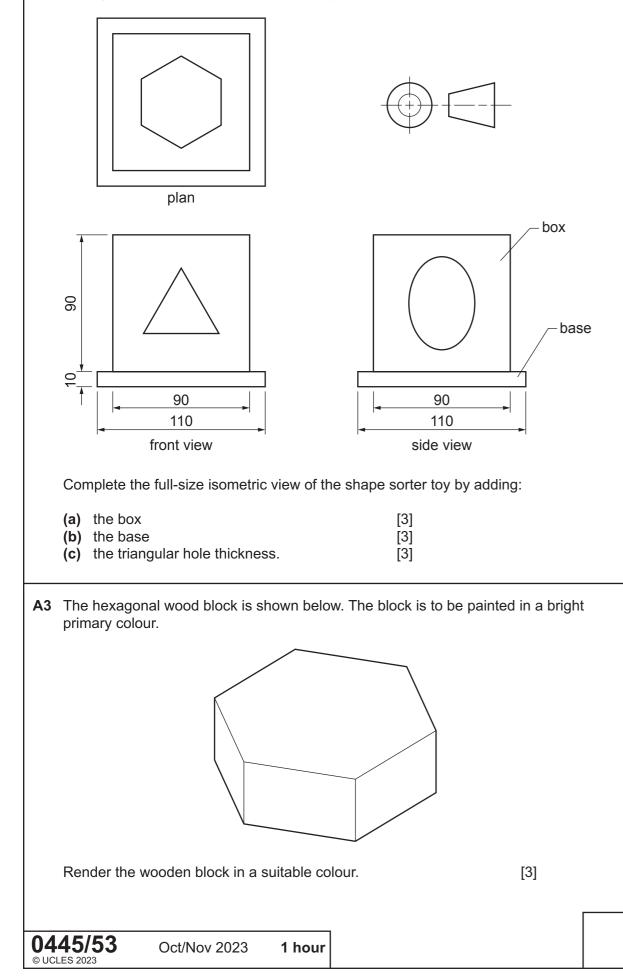
0445/53 Oct/Nov 2023 © UCLES 2023 **1 hour** DC (CJ/SW) 312584/5 Centre Number ..... Candidate Number ..... Candidate Name



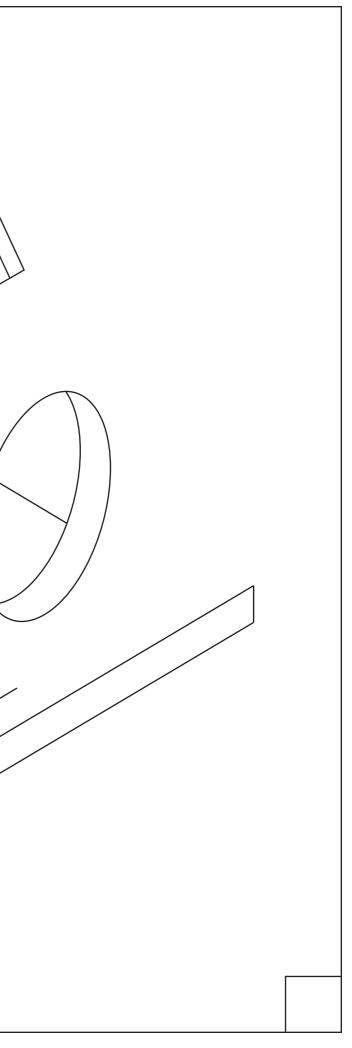
	For Examiner's use
[	
	Sheet 1 of 2

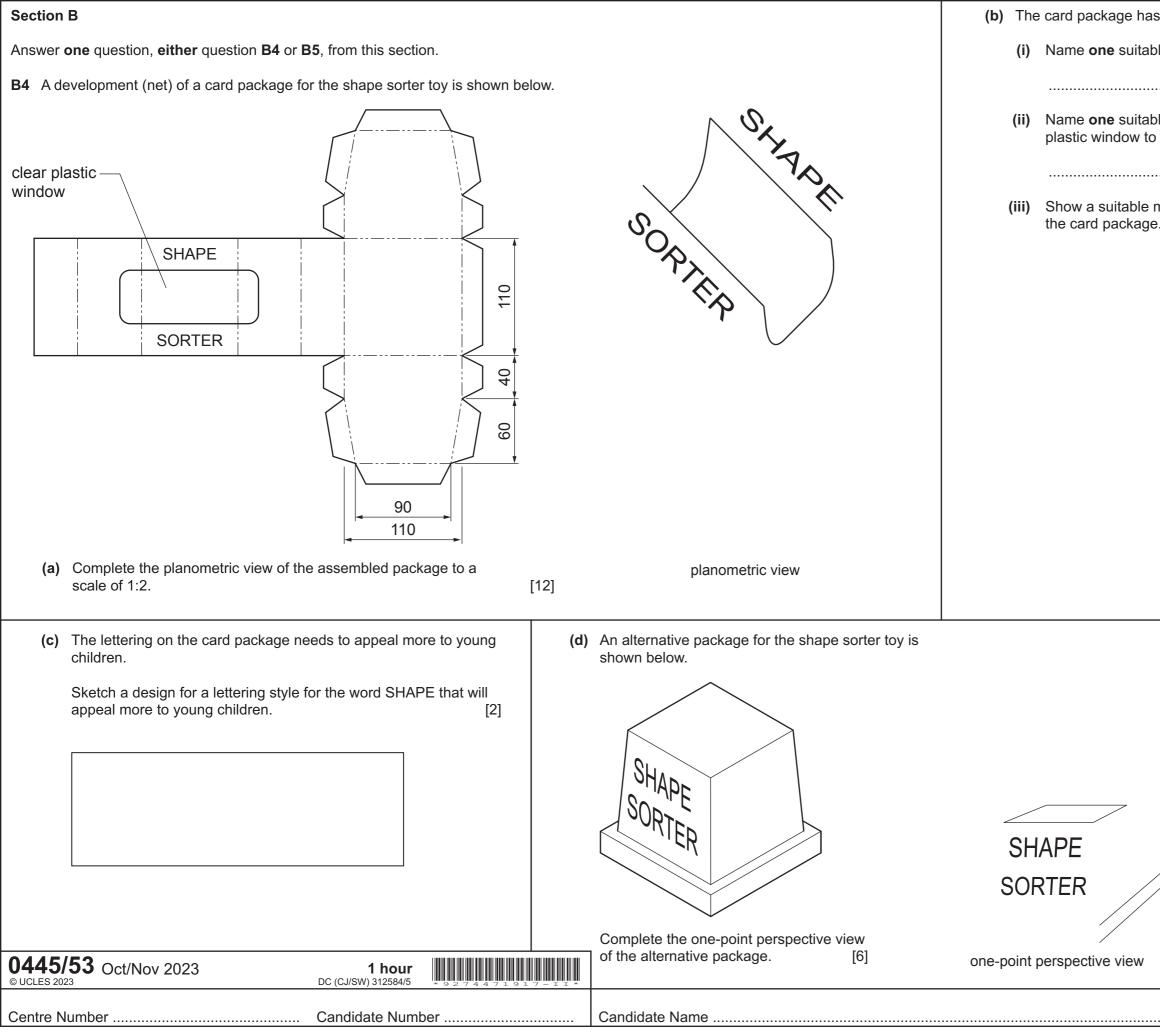
A2 The wooden blocks will be used with a shape sorter toy.

Orthographic views of the shape sorter toy are shown below.



isometric view





s a clear window made from thin plastic sheet.	
ble plastic for the clear window.	
	[1]
ble adhesive that could be used to fix the clear the card package.	
	[1]
method of attaching the clear plastic window to e.	[3]

	VP
	For Examiner's use
1	
[Turn over	
	Sheet 2 of 2

<b>B5</b> A toy trolley is shown below.		(b) The wheels are attached
handrail		
	plan	wheels Ø150 50 mm thick axle Ø20 hole Ø30 Complete the sectional view of 1:5.
<ul> <li>(a) Complete the orthographic views of the toy trolley to a scale of 1:10. [10]</li> <li>(c) An image of a teddy bear is to be added to the front of the toy trolley.</li> </ul>	(d) The image of the teddy bear is to be cut out from 10	mm thick acrylic sheet and added t
<ul><li>(i) Describe how a computer could be used to source and capture a teddy bear image.</li></ul>	400	
<ul> <li>(ii) The image will need to be altered to fit in the space on the front of the toy trolley.</li> <li>State two ways that the image could be altered onscreen using a computer.</li> <li>1</li> </ul>	front of	6
2[2]	Complete the exploded isometric view, to a scale of 1:5, by adding the front of the toy trolley. [5]	I
0445/53 Oct/Nov 2023 1 hour		exploded

