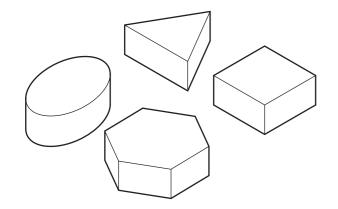
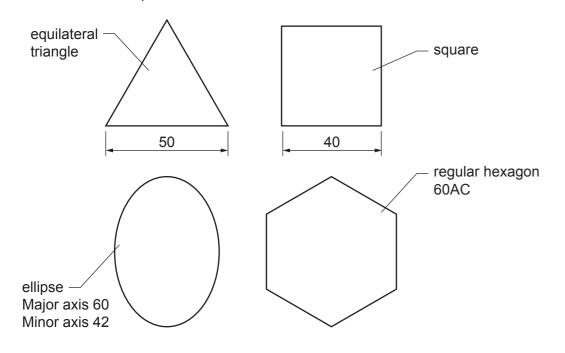
Section A

Answer all questions in this section.

A1 Four wooden blocks are shown below.



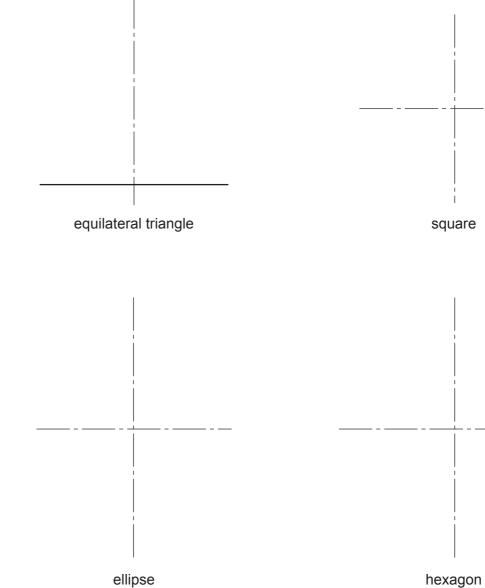
The sizes and shapes of the blocks are shown below.



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]

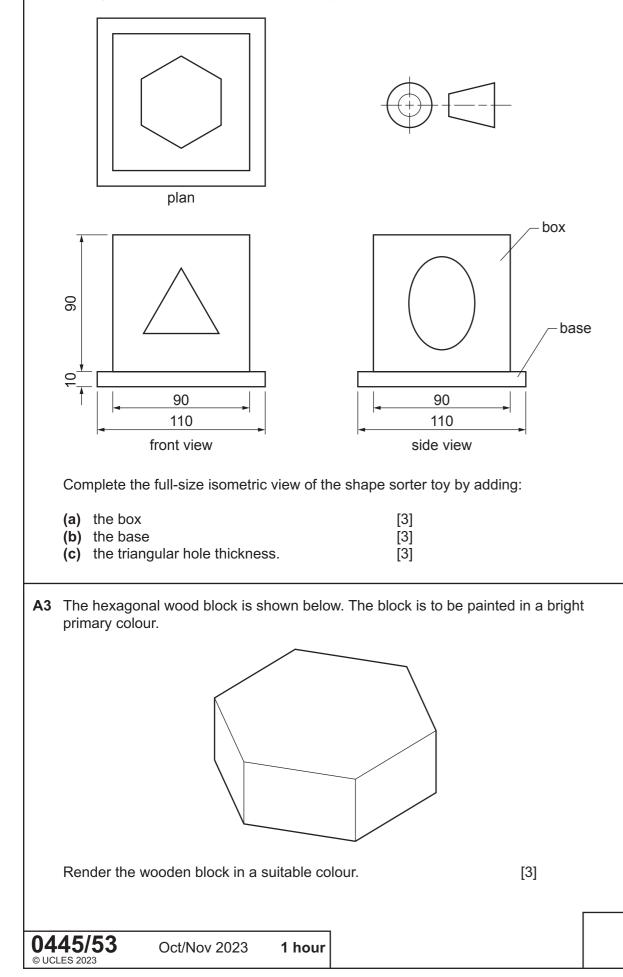
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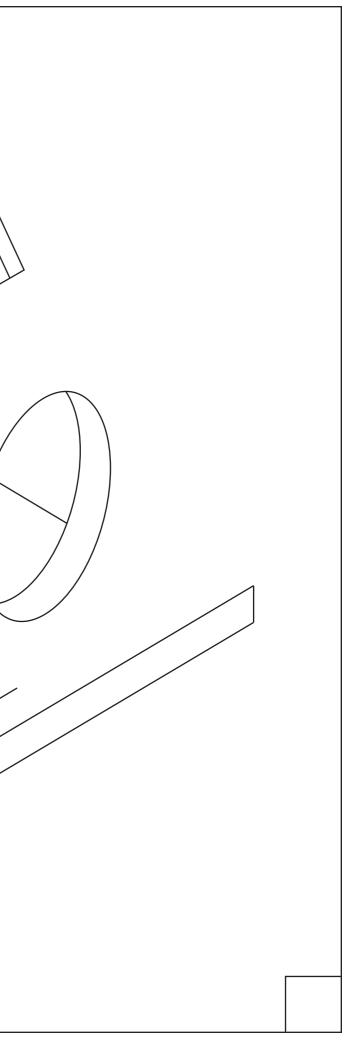
	For Examiner's use
[
	Sheet 1 of 2

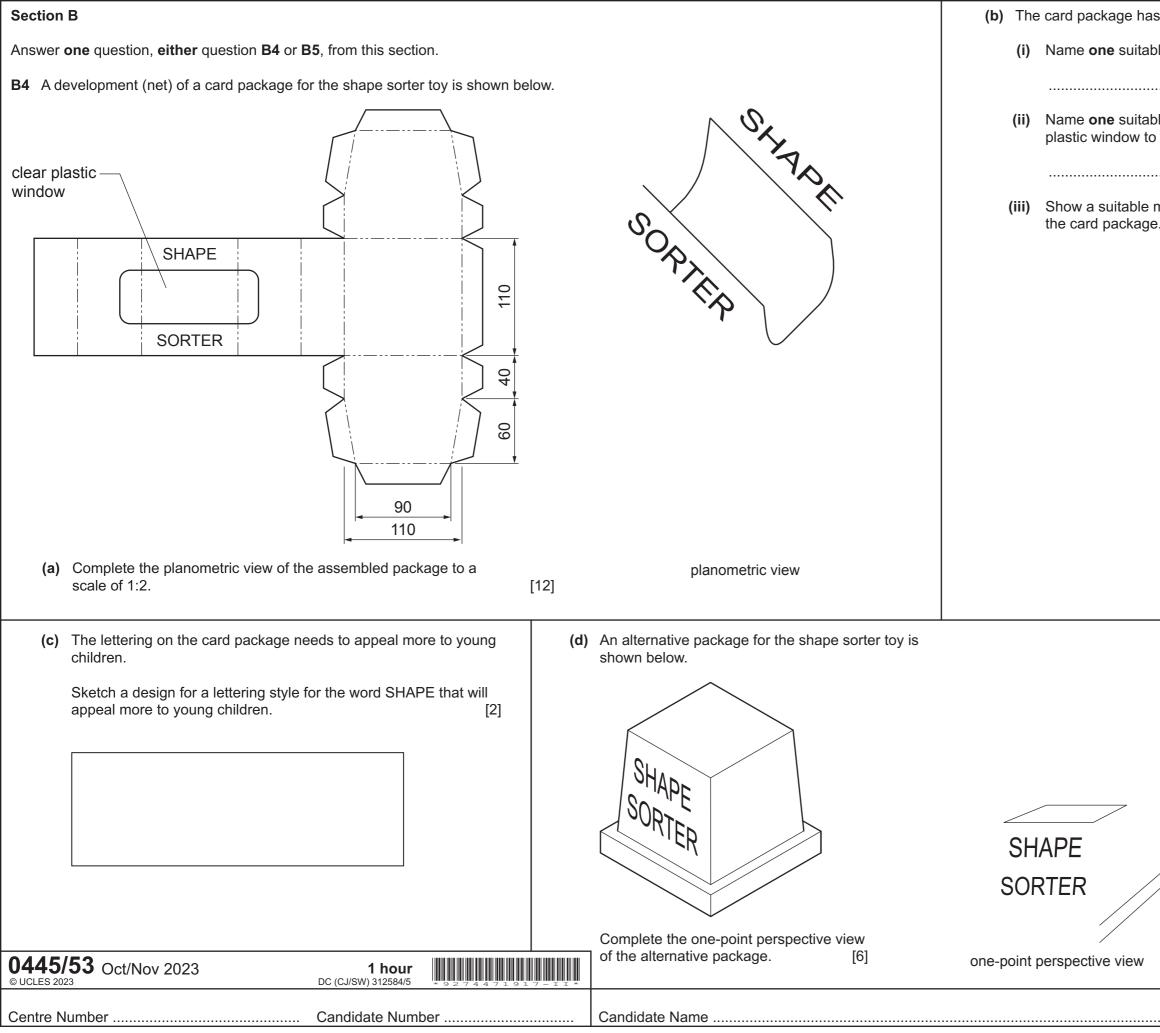
A2 The wooden blocks will be used with a shape sorter toy.

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
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1	
[Turn over	
	Sheet 2 of 2

B5 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.
 (a) Complete the orthographic views of the toy trolley to a scale of 1:10. [10] (c) An image of a teddy bear is to be added to the front of the toy trolley. 	(d) The image of the teddy bear is to be cut out from 10	mm thick acrylic sheet and added t
(i) Describe how a computer could be used to source and capture a teddy bear image.	400	
 (ii) The image will need to be altered to fit in the space on the front of the toy trolley. State two ways that the image could be altered onscreen using a computer. 1 	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

