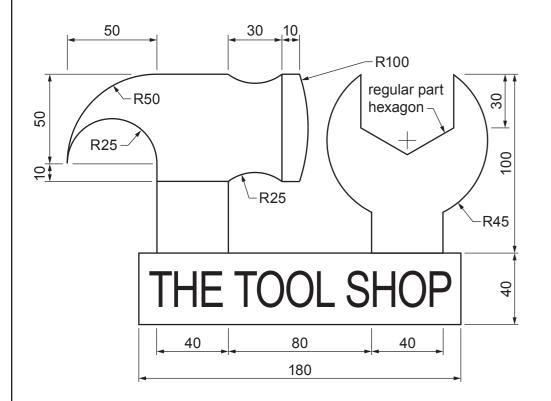
Section A

Answer **all** questions in this section.

A1 A logo for a tool shop is shown below.



Complete the full size view of the tool shop logo in the space provided to the right by drawing:

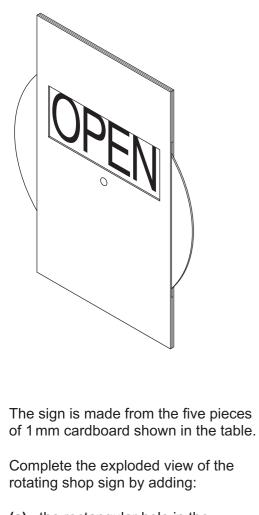
(a)	the outer shape of the rectangle	[2]
(b)	the claw hammer shape	[7]
(c)	the spanner shape.	[5]

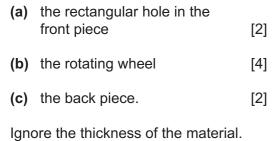
THE TOOL

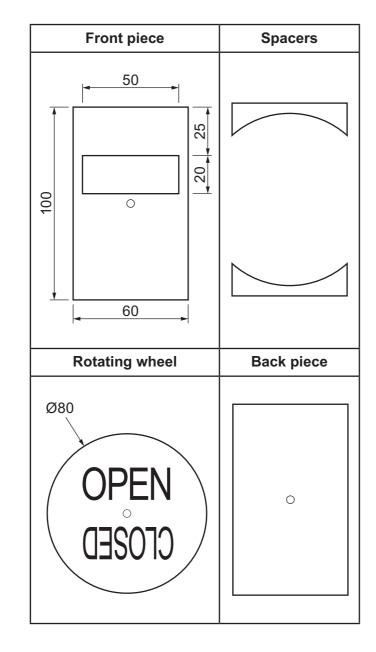
0445/52 © UCLES 2020	May/June 2020	1 hour (B) 186131/3			
Centre Number			Candidate Number	Candidate Surname	Other Names

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

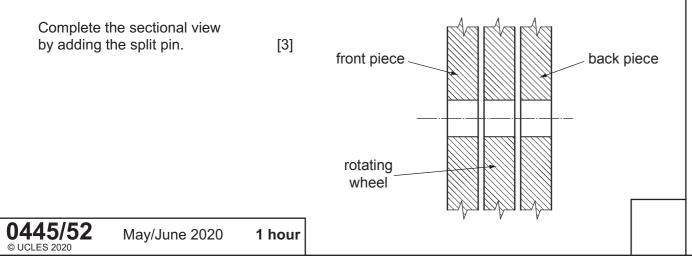
A2 A rotating open/closed sign for the shop is shown below.

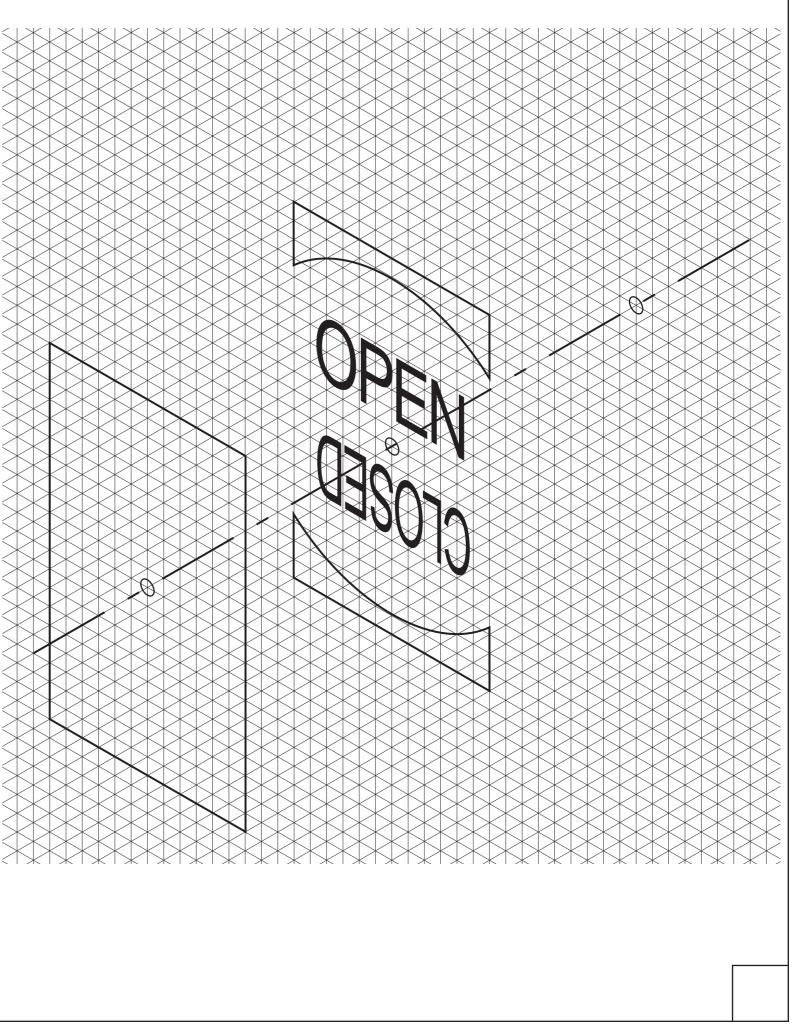


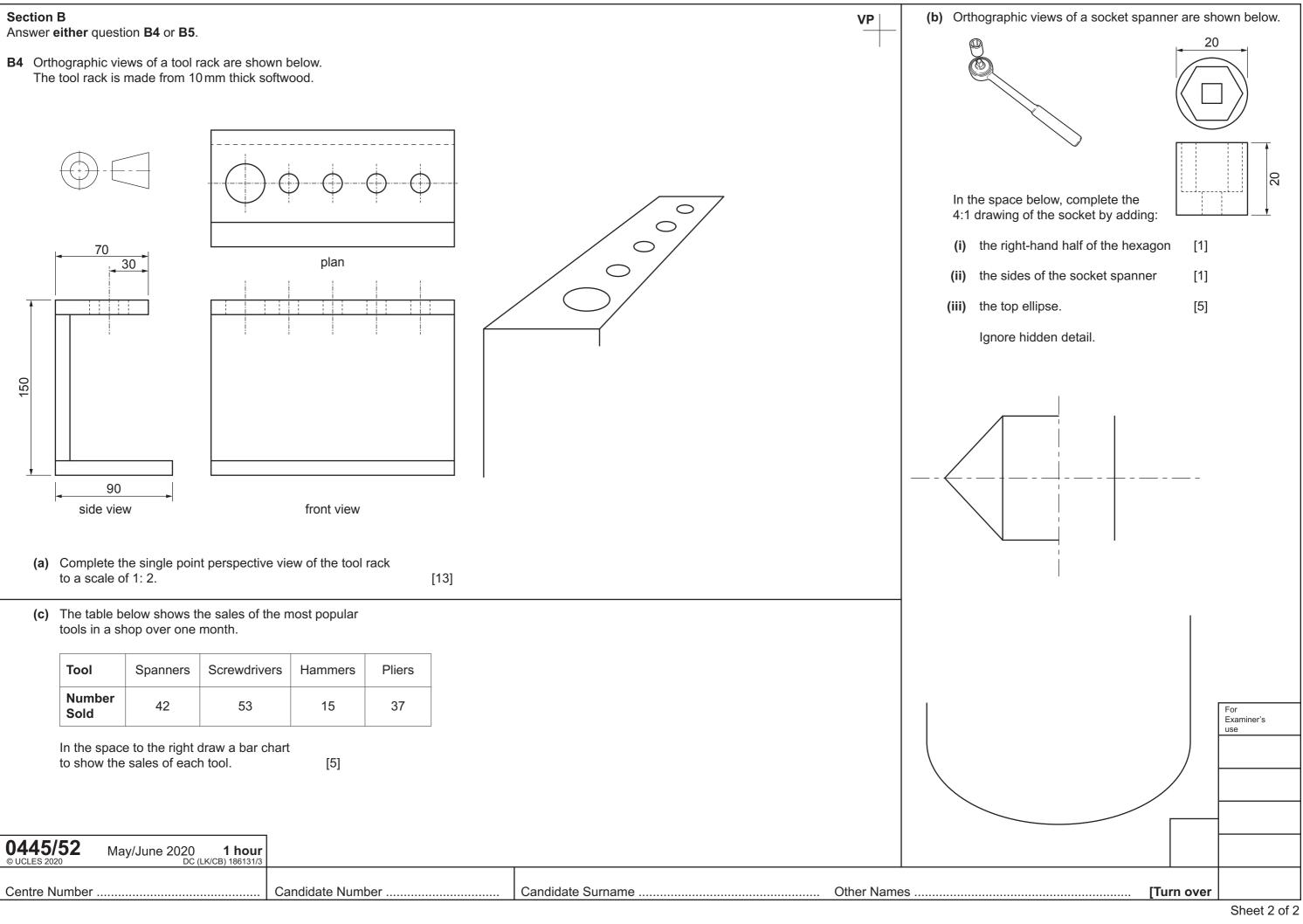




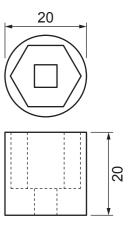
A3 A split pin is inserted through the centre of the sign to fasten the parts together and allow the wheel to rotate.







Number	Candidate Number	Candidate Surname



B5 Orthographic views of a blister pack for screws are shown below.	(b) The mould for vacuum forming the blister is shown to the right.		
10° 50° 10° 10	Add sketches and notes to show: (i) two different modifications to the mould that would make it easier to remove from the blister after vacuum forming [4] (ii) a modification to the mould that would help prevent air pockets and ensure the blister has good definition and shape. [2]		
(a) Complete the full size isometric view of the blister pack below. [12] $\begin{tabular}{ll} \label{eq:alpha} \\ \end{tabular} \end{tabular}$	(c) The blisters are to be vacuum formed in thin clear plastic, before being trimmed to size and glued to the backboard. Complete the table below to show one safety precaution for each stage in the making process. Process Safety precaution Vacuum forming the plastic blister.	 (d) The blister packs are to be mass produced in quantities of 5000. State one suitable commercial process that could be used to: (i) cut out the card backboards [1] (ii) print the SCREWS lettering onto the backboards. 	
	Trimming the plastic blister to size with a craft knife. Gluing the plastic blister	(e) The symbol below is to be printed onto the blister pack. Explain one benefit of using symbols on products instead of written instructions.	
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