	FOR OFFICIAL US	E					
N5	National Qualifications 2021 ASSESSMENT RESOURCE				Mark		
X835/75/01			Gra	phic Co	mmuni	cation	
Duration — 1 hour 30 minu Fill in these boxes and read		ed below.		*	X 8 3 5 7	7 5 0 1 *	
Full name of centre			Town				
Forename(s)	Sui	rname			Number	of seat	
Date of birth							
Day Month	Year	Scottish c	andidat	e number			
Total marks — 65							

Attempt ALL questions.

All dimensions are in mm.

All technical sketches and drawings use third angle projection.

You may use rulers, compasses or trammels for measuring.

In all questions you may use sketches and annotations to support your answer if you wish.

Write your answers clearly in the spaces provided in this booklet. Additional space for answers is provided at the end of this booklet. If you use this space you must clearly identify the question number you are attempting.

Use **blue** or **black** ink.

Before leaving the examination room you must give this booklet to the Invigilator; if you do not, you may lose all the marks for this paper.



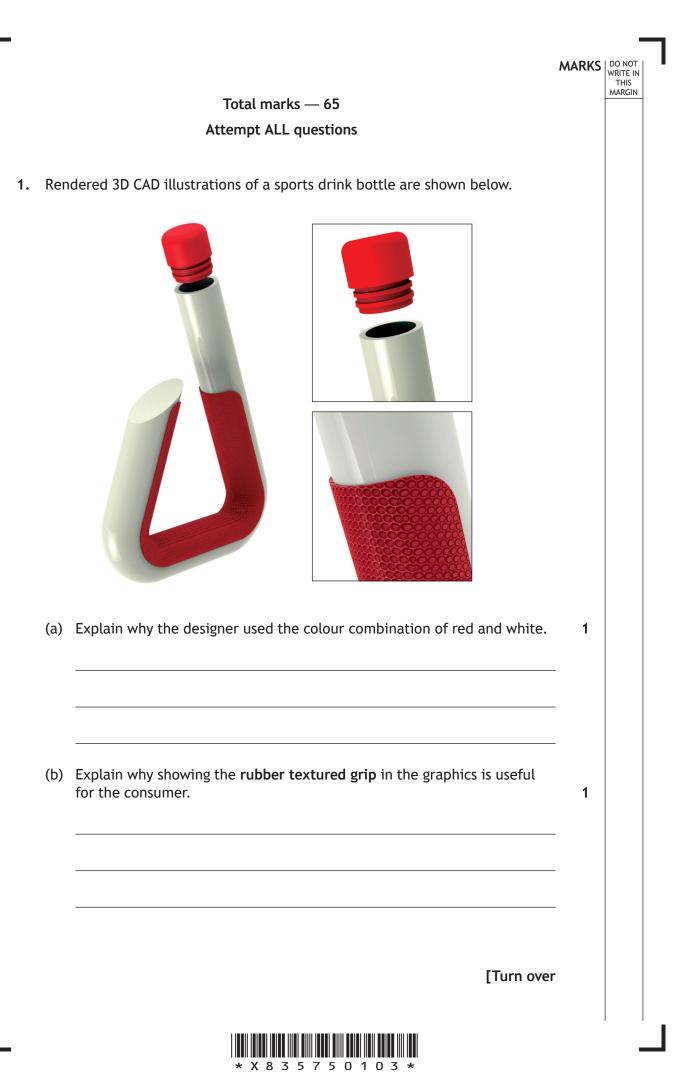


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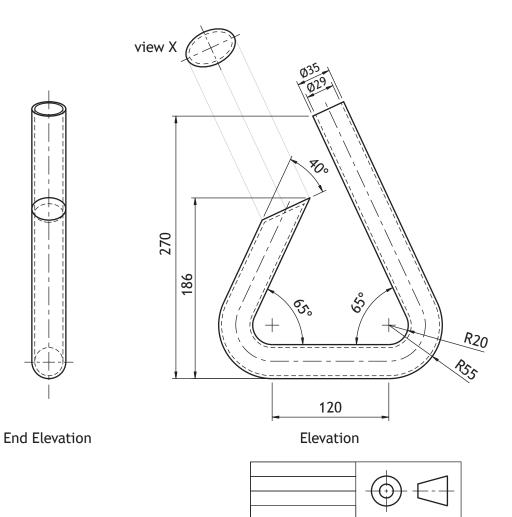
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An orthographic component drawing of the body of the sports drink bottle is shown below.

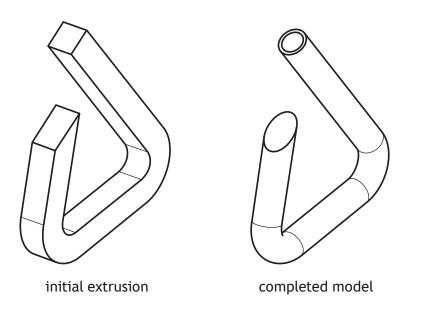
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The body of the sports drink bottle was modelled using 3D CAD modelling software.

A pictorial line drawing of the initial extrusion and completed model is shown below.



(c) Describe, using the dimensions from the orthographic component drawing and 3D CAD modelling terms, how you would use 3D CAD software to complete the body of the bottle. You may annotate the line drawing and use sketches to support your answer.



3

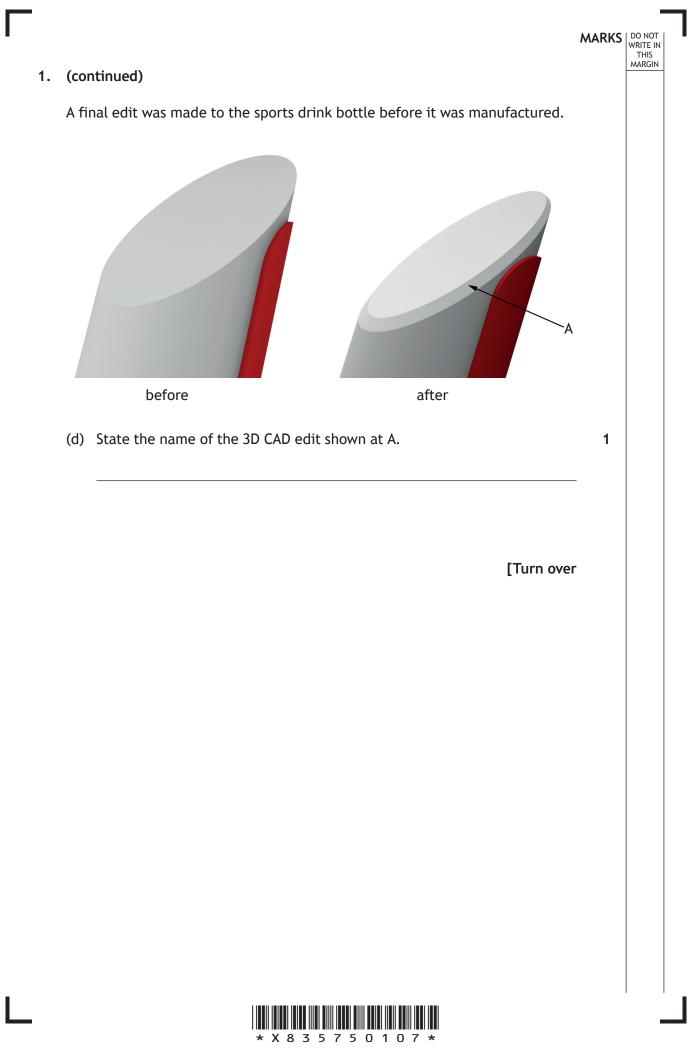
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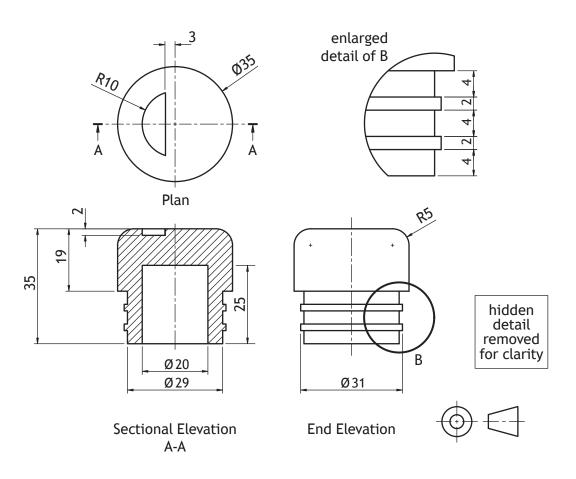
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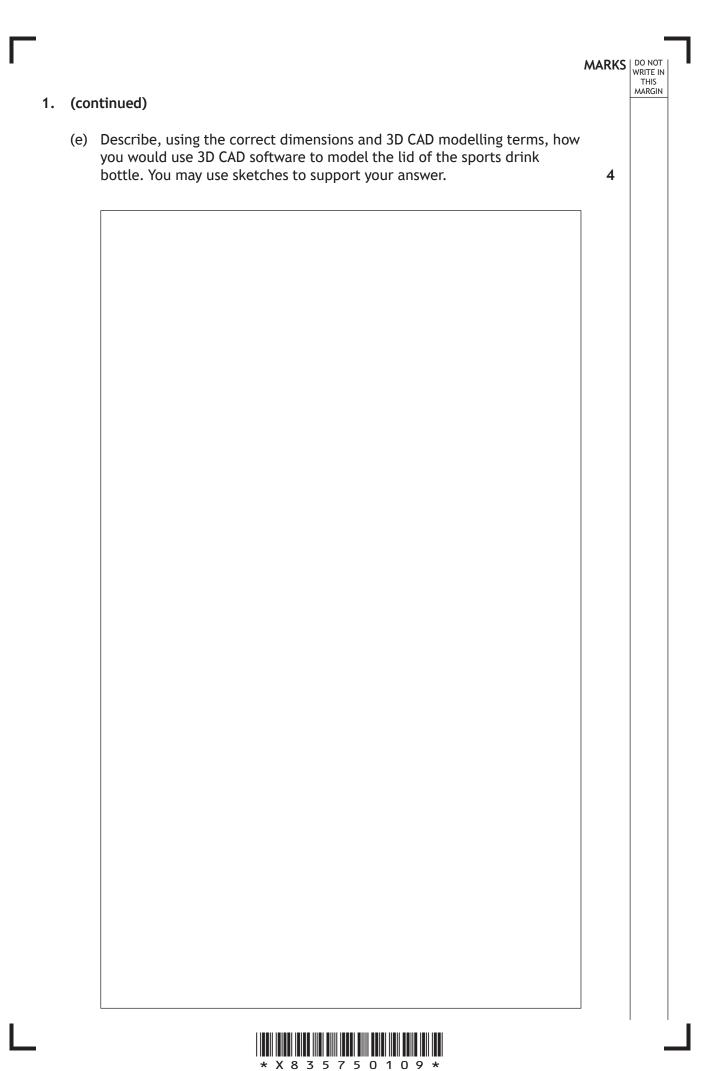


An orthographic drawing of the sports drink bottle lid is shown below.

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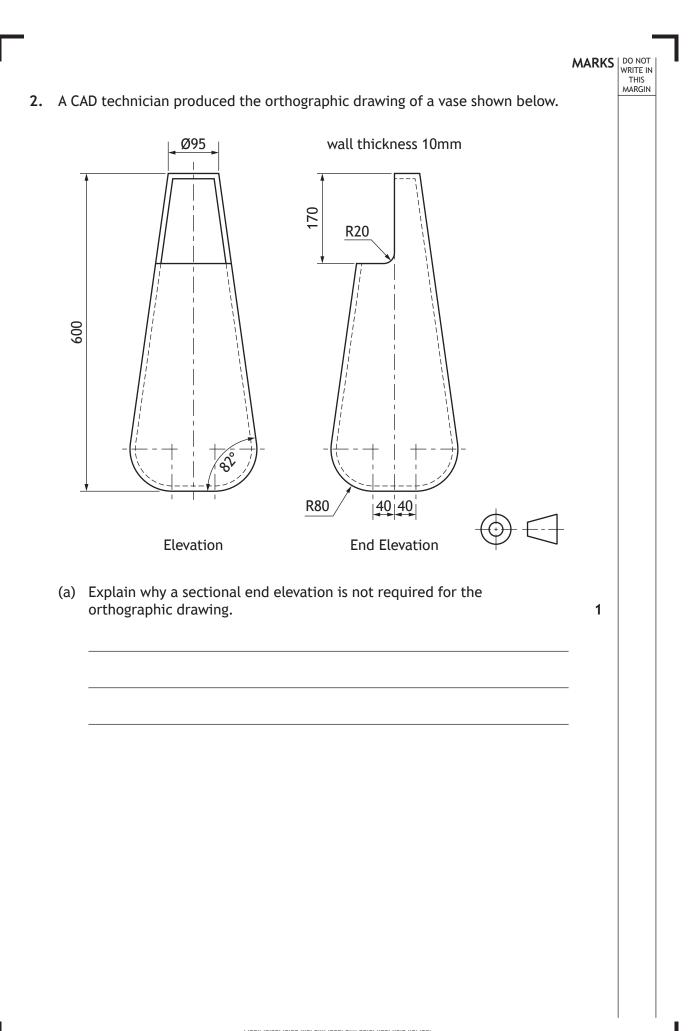
MARKS DO NOT WRITE IN THIS MARGIN (continued) 1. The detail on top of the lid of the sports drink bottle was then edited, as shown below. before after (f) State the name of the 2D CAD tool used to make the edit. 1 before after (g) State the name of the 2D CAD tool used to make the edit. 1



[Turn over for next question

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2. (continued)

(b) Describe, using the correct dimensions and 3D CAD modelling terms, how you would use 3D CAD software to model the vase. You may use sketches to support your answer.

6



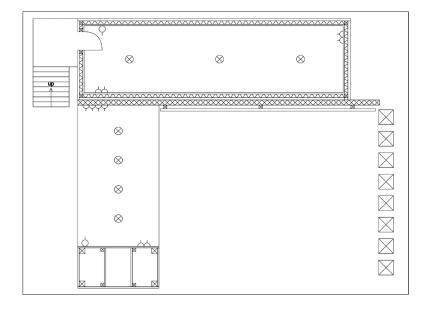
MARKS DO NOT WRITE IN THIS MARGIN (continued) 2. The CAD technician rendered the CAD model of the vase to make it more realistic, as shown below. CAD model rendered CAD model (c) Identify two computer aided rendering techniques that have been applied to the model. 2



Image: state the name of a DTP technique that is used to remove the background of an image. (a) Extent the name of a DTP technique that is used to remove the background of an image.	CS DO NOT WRITE I THIS MARGIN
illustration (a) Explain two advantages to the public of the rendered 3D CAD illustration in comparison to the isometric line drawing. (b) Preliminary graphics for the bandstand were produced using digital techniques. (i) State the name of two digital devices that could be used to convert a manual sketch into a digital file. (ii) State the name of a DTP technique that is used to remove the background of an image. (c) Describe two disadvantages of using digital techniques.	
in comparison to the isometric line drawing.	
techniques. (i) State the name of two digital devices that could be used to convert a manual sketch into a digital file. (ii) State the name of a DTP technique that is used to remove the background of an image. (c) Describe two disadvantages of using digital techniques.	
 (ii) State the name of a DTP technique that is used to remove the background of an image. (c) Describe two disadvantages of using digital techniques. 	
background of an image.	
(c) Describe two disadvantages of using digital techniques.	

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A plan of the bandstand is shown below.

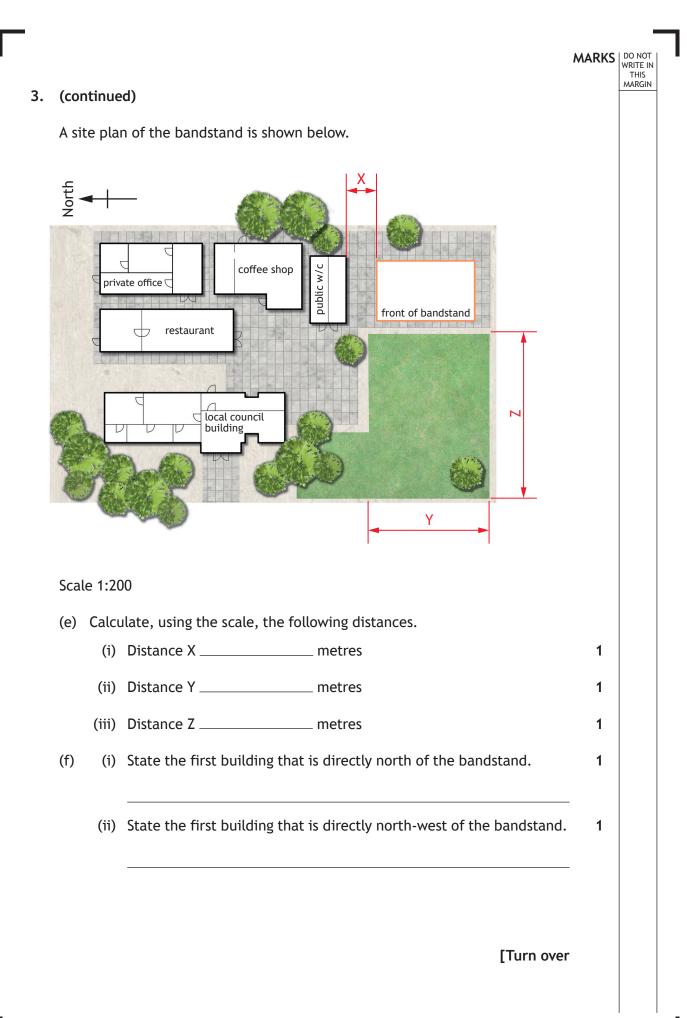


(d) Describe **two** ways a CAD library can assist in the production of a plan.

2

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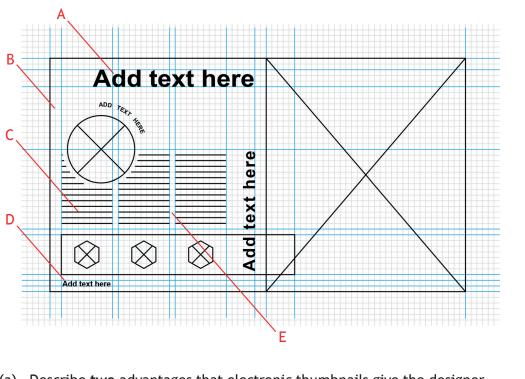




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Before the final version of each slide was produced the graphic designer created electronic thumbnail layouts. One of the thumbnails is shown below.



(a) Describe **two** advantages that electronic thumbnails give the designer over manual thumbnails.

There are a number of DTP layout features in the thumbnail.

(b) State the name of the following features.

Feature A _____ Feature B Feature C ______ Feature D Feature E _____



2

5

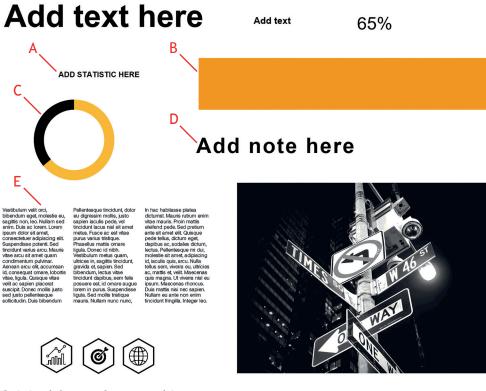
THIS

The final layout of the slide is shown below. The text and the images that are used in the slide have been laid out in their original form at the bottom of the page.

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Final layout of slide



Original form of text and images



•			MARKS	WRITE
4.	(con	tinued)		TH MAR
	(c)	State the name of the DTP edit that has been applied to each of the items to alter them from their original form to the state shown in the final layout.		
		Do not refer to scaling or resizing in your answer, and you must give a different answer for each response.	5	
		Edit A	-	
		Edit B	-	
		Edit C	-	
		Edit E	-	
	The	slide presentation will be viewed electronically and will not be printed.		
(0	(d)	Describe two features that can be used in electronic presentations that would not be possible in a printed version.	2	
			-	
			-	
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page 21

* X 8 3 5 7 5 0 1 2 1 *

The graphic designer has used a number of layout elements and principles in the slide shown below.

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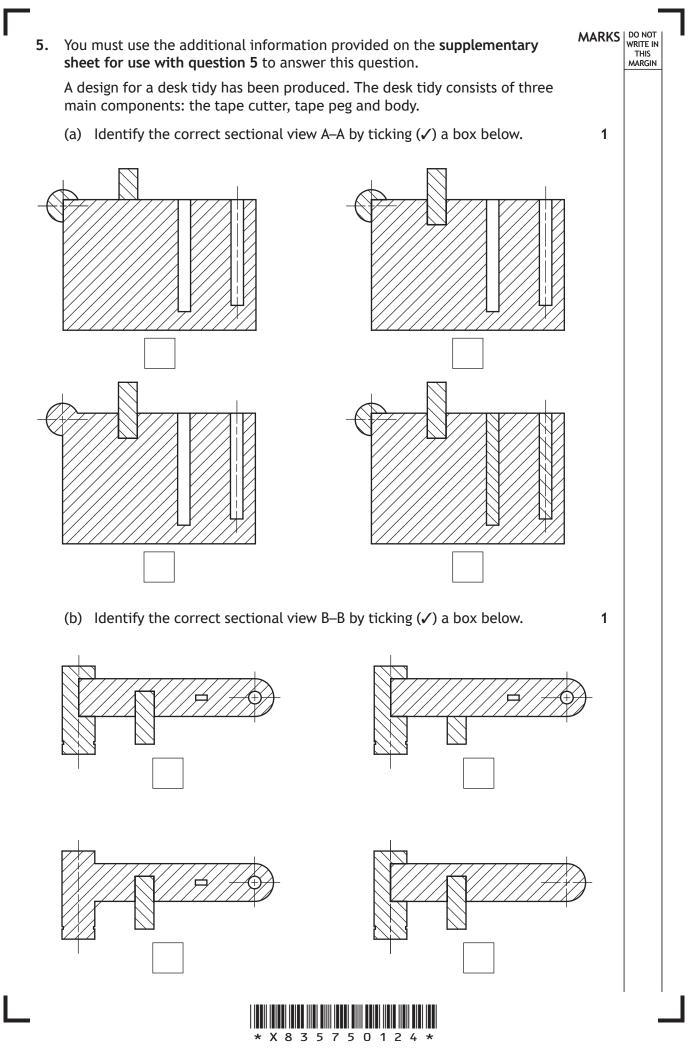
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			Add text here	

(e) Describe **two** ways the designer has applied the following elements and principles.

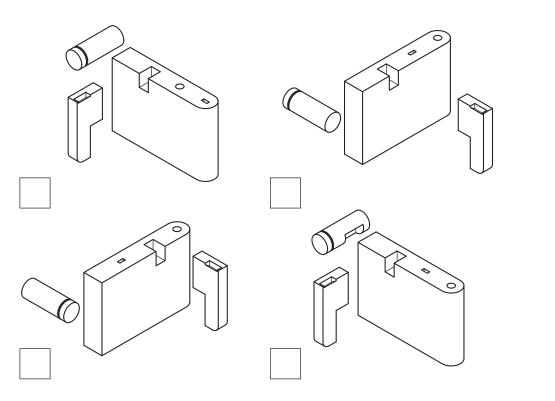
You must give a different answer for each response.

(i)	Contrast	_ 2
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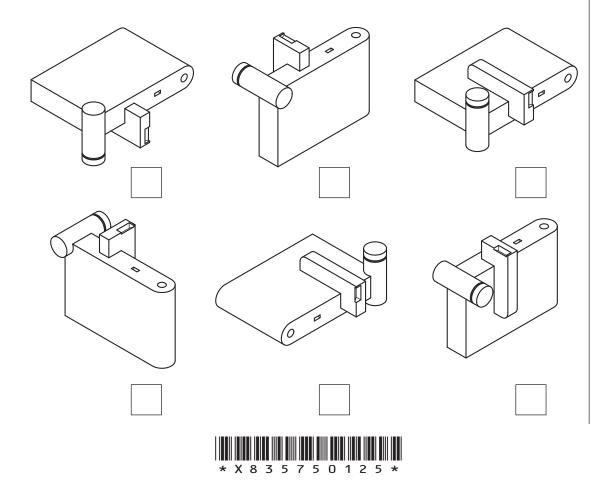
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	4.	(e)	(cont	tinued)		WRITE IN THIS MARGIN	-
			(iv)	Alignment	2		
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	ı					 -	
				* X 8 3 5 7 5 0 1 2 3 *			



(c) Identify the correct exploded pictorial drawing by ticking (\checkmark) a box below.



(d) Identify the **two** correct pictorial drawings by ticking (✓) **two** boxes below.



1

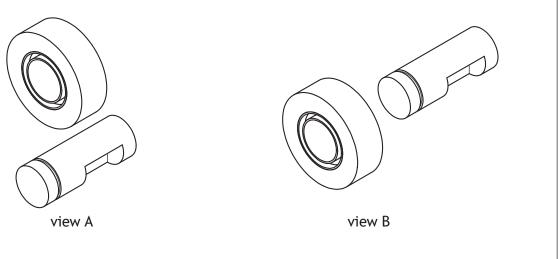
2

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MARKS DO NOT WRITE IN THIS MARGIN (continued) 5. Orthographic views of the tape cutter are shown below. Plan 1 _ _ End Elevation Elevation End Elevation (e) Identify the two correct pictorial drawings by ticking (\checkmark) two boxes 2 below.



(f) Two exploded views for the tape assembly instructions are shown.



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1

Explain why view B is more useful to users than view A.

[END OF QUESTION PAPER]



ADDITIONAL SPACE FOR ANSWERS



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ADDITIONAL SPACE FOR ANSWERS



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