

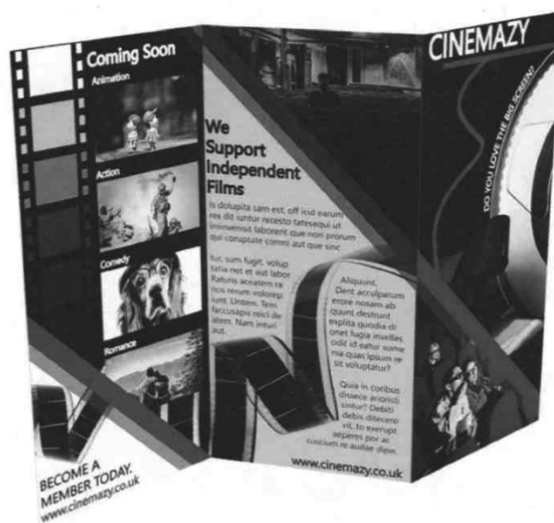
Candidate 2 evidence

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Total marks — 90
Attempt ALL questions

For questions 1 (a) to (f), refer to the information provided on supplementary sheets 1 and 2.

A three-fold leaflet has been created for the independent cinema, Cinemazy.



1. (a) Describe, giving two examples, how the graphic designer's use of contrast has enhanced the layouts.

2

one example of contrast is the white text against the black background, this provides emphasis to the text.

Another example is the red against the black and white background this creates separation in the texts and draws in the viewers eyes.

- (b) Describe, giving two examples, how the graphic designer has created rhythm to enhance the layouts.

2

one example of rhythm is the repeated use of line, this helps to create commonality across the pages, making the design flow well.

Another example is the repeated use of film / film equipment, this creates a flowing design as the graphics remain consistent and on theme.

		MARKS	DO NOT WRITE IN THIS MARGIN
1. (continued)			
(c)	Describe, giving two examples, how the graphic designer has used value in the layouts.	2	
One example of where value has been used is the bright red line, using bright red creates contrast from the black/white background making it stand out. Another example is the double ^{transparent} red line, this contrasts with both the background and other elements of the design which are brighter. ^{★ finished at back}			
(d)	Describe, giving two examples, how the graphic designer has created depth in the layouts.	2	
One example of depth is the transparent line sitting on top of the film, this creates depth as we can clearly see that the line is on top of the film. Another example is the shadow and highlights on the film, this makes it appear as though the film is sitting on the page.			
(e)	Describe, giving two examples, how the graphic designer has used alignment in the layouts.	2	
One example of alignment is the central alignment of pictures under the coming soon title, this creates an orderly and tidy effect in the design. Another example of alignment			
(f)	Explain, giving one example, why the graphic designer has used emphasis in the layouts.	1	
Emphasis has been used in the title, not only is white text on a black background, line has been used to direct the viewers eyes.			

1. (continued)

The graphic designer created the logo for Cinemazy as a vector file and stored it in the cloud.



- (g) (i) Describe **two** advantages of creating the logo in the vector file format. 2

One advantage of vector file formats is it takes up less
storage space, meaning it loads quicker, as there's less to load
Another advantage is it has high resolution, this means that
the image can be scaled to any size without losing quality

- (ii) Describe **two** advantages of cloud storage. 2

One advantage of cloud storage is it can be accessed from
anywhere as long as there is internet access.
Another advantage is it can be backed up, this means
if they lost the file they would have a backed up copy.

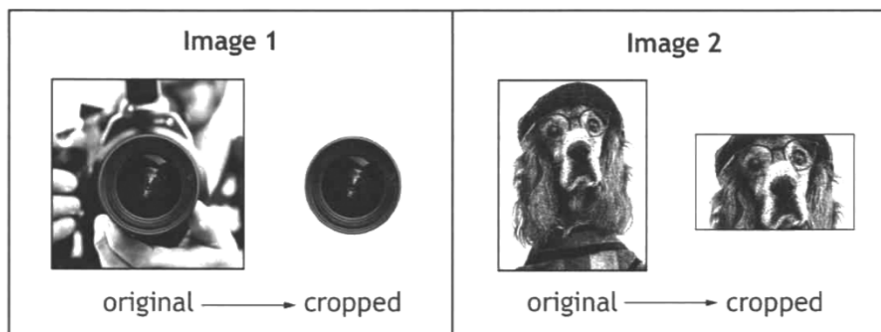
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1. (continued)

The graphic designer has used cropping to edit the images used in the layouts.



(h) State the name of the crop applied to the images shown above.

2

(i) Image 1 Full crop

Image 2 square crop

(ii) Describe the effects that the two types of cropping have created within the layouts.

2

Full crop removes any unwanted backgrounds, this means that the cropped image will flow better in the layout.

Square crop allows the designer to focus on the part of the photograph they want. This can create separation in the design.

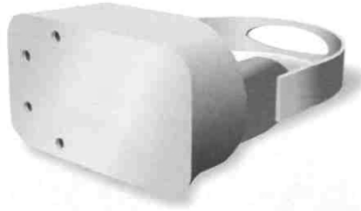
The graphic designer used placeholder text in the preliminary layouts.

(i) Explain one advantage to the graphic designer of using placeholder text.

1

Placeholder text allows the designer to see the general layout amount of room that needs to be left for the writing to go in, ensuring they don't place any key design elements in dedicate areas for writing.

2. A tech company is developing a new virtual reality (VR) headset. A prototype is shown below.



Bottom-up modelling was used to create the VR headset components.

- (a) Describe the process of bottom-up modelling.

2

Bottom-up modelling is the process of making all of the component parts separately first. Only when all components are created do they then put them into an assembly format and begin to constrain them.

For questions 2 (b), c (i) and c (ii), refer to the information provided on supplementary sheet 3.

- (b) Explain the purpose of the detail view D.

1

The purpose of detail view D is to clearly show how the two component parts join together.

- (c) (i) State the name of the type of section shown at A-A.

1

step section

- (ii) State the name of the type of section shown at C.

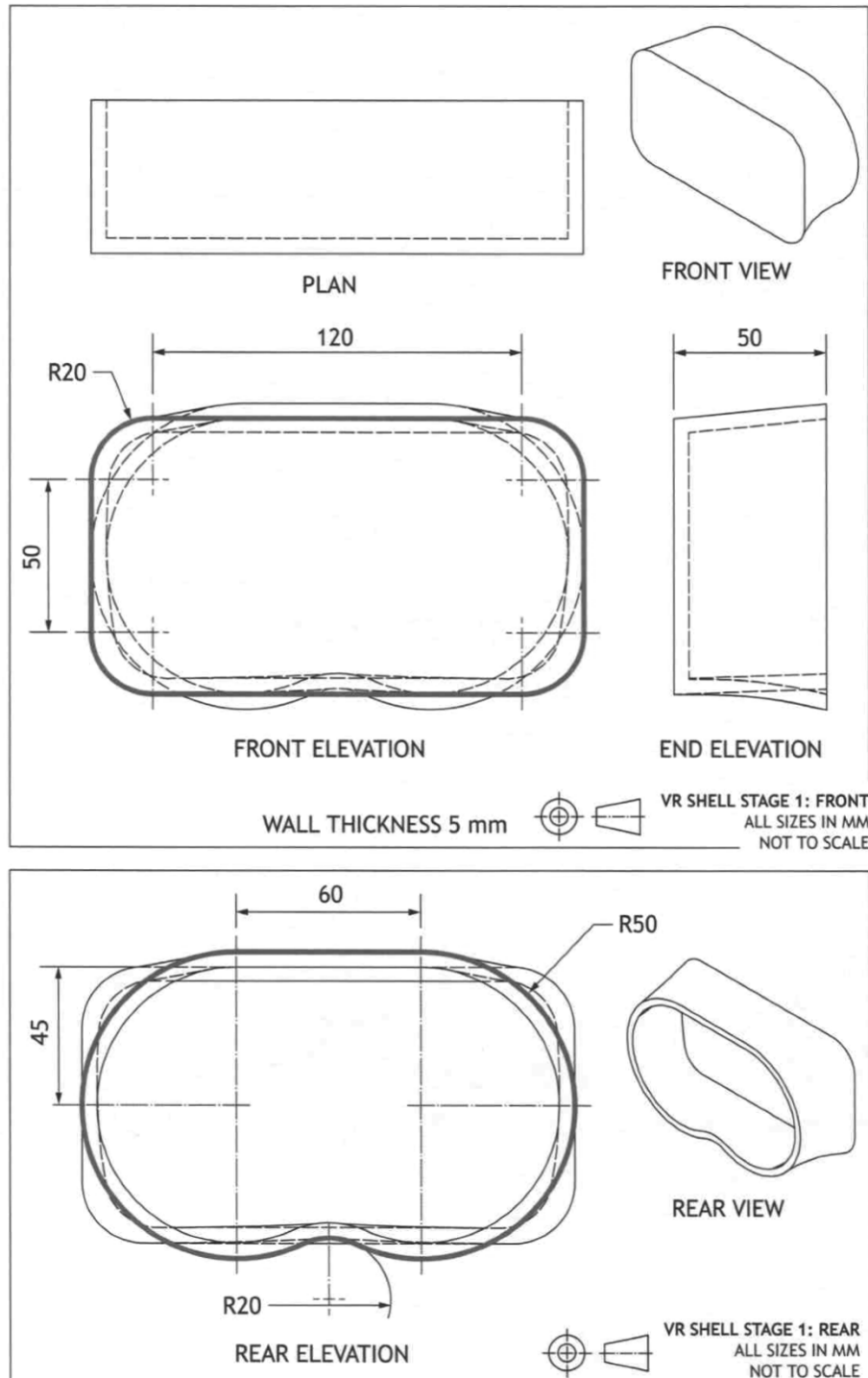
1

~~through~~ revolved section

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2. (continued)

Two drawings of stage 1 of the VR headset are shown below. The drawing at the top is an orthographic showing the front elevation, end elevation and plan. The second drawing is also of stage 1 of the VR headset shown from the rear to make the profile easier to see.

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2. (continued)

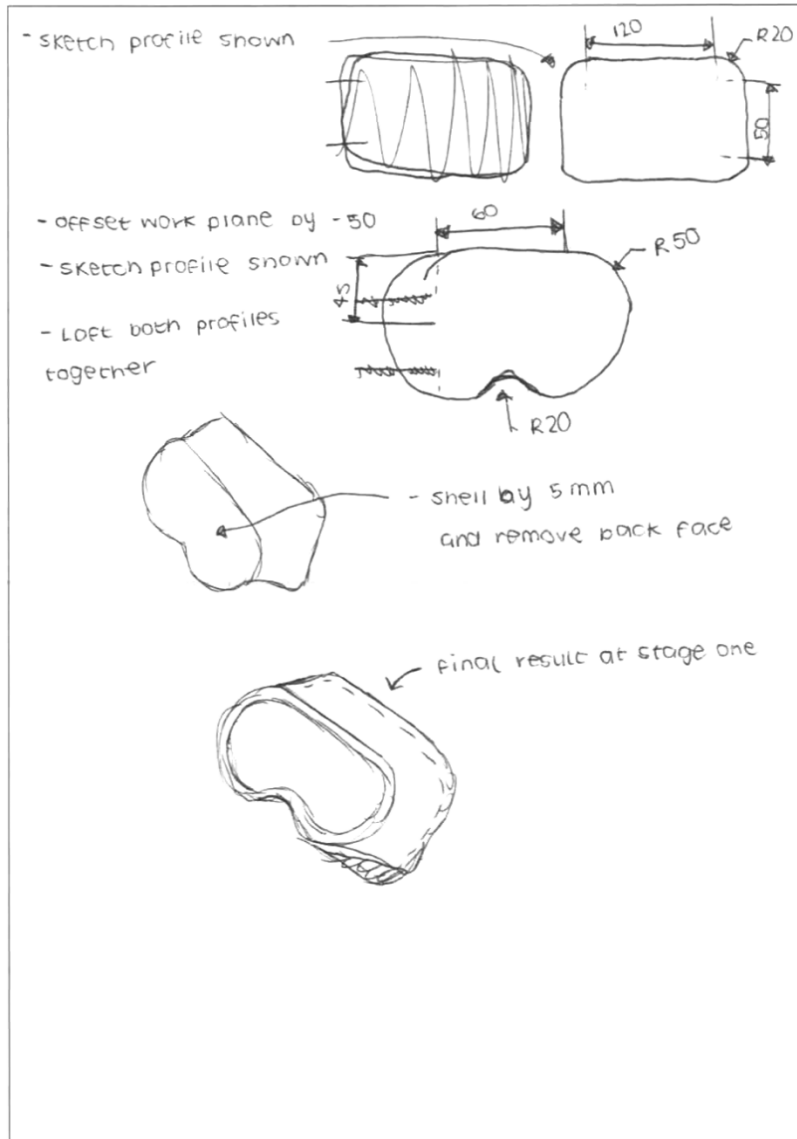
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- (d) (i) Describe the 3D CAD modelling techniques used to create stage 1 of the VR headset component, shown in the drawings opposite.

You must reference the dimensions in the drawing of the front and rear of the VR headset, shown opposite.

You may use sketches to support your answer.

5

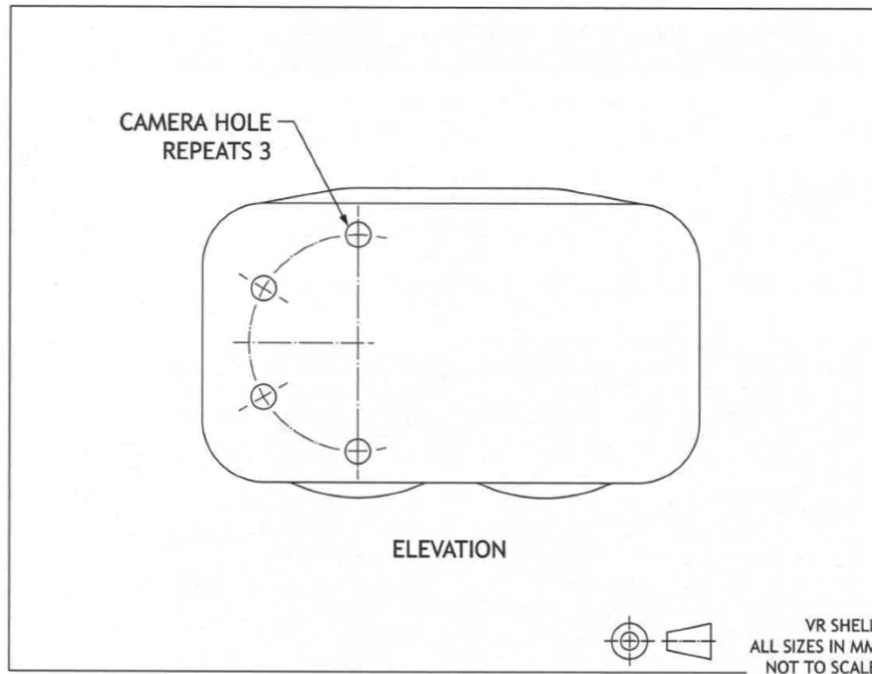


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2. (d) (continued)

In stage 2, a series of camera holes were added to the VR headset.



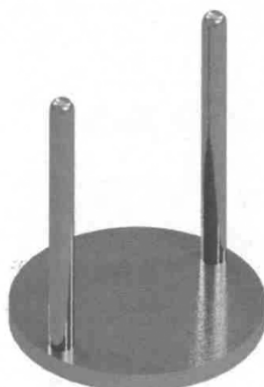
- (ii) State the name of the 2D CAD command used to create the repeated feature in the drawing above.

1

Radial array

2. (continued)

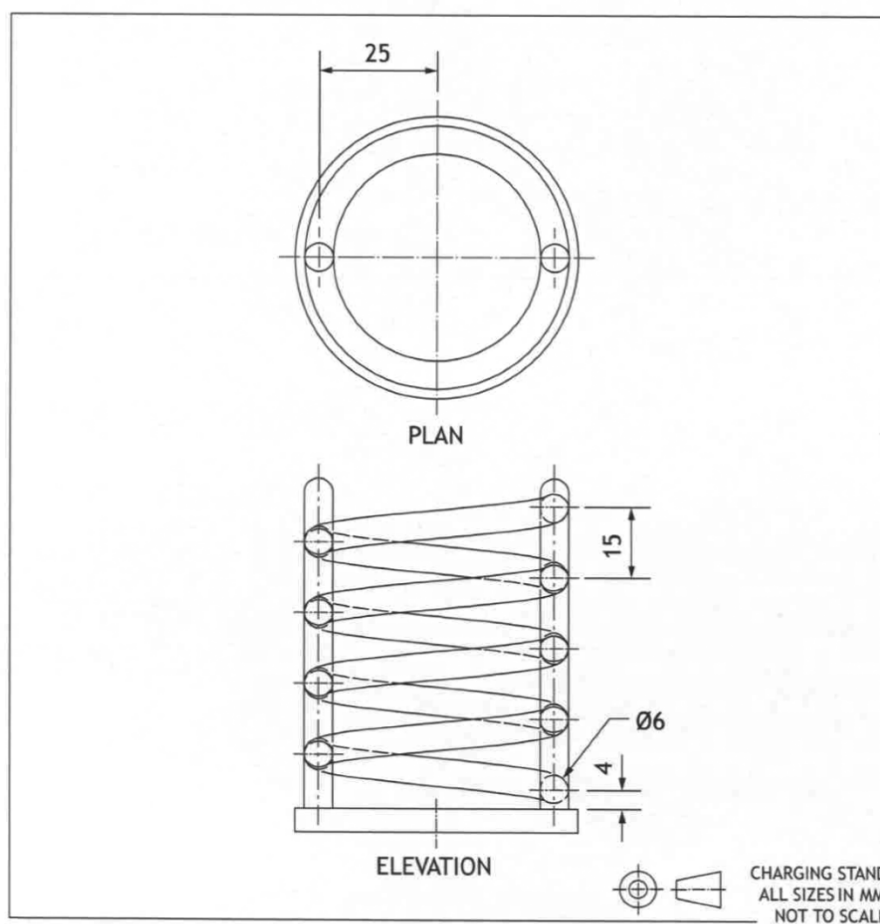
A prototype for a VR controller charging stand is shown below.



Stage 1



Stage 2



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2. (continued)

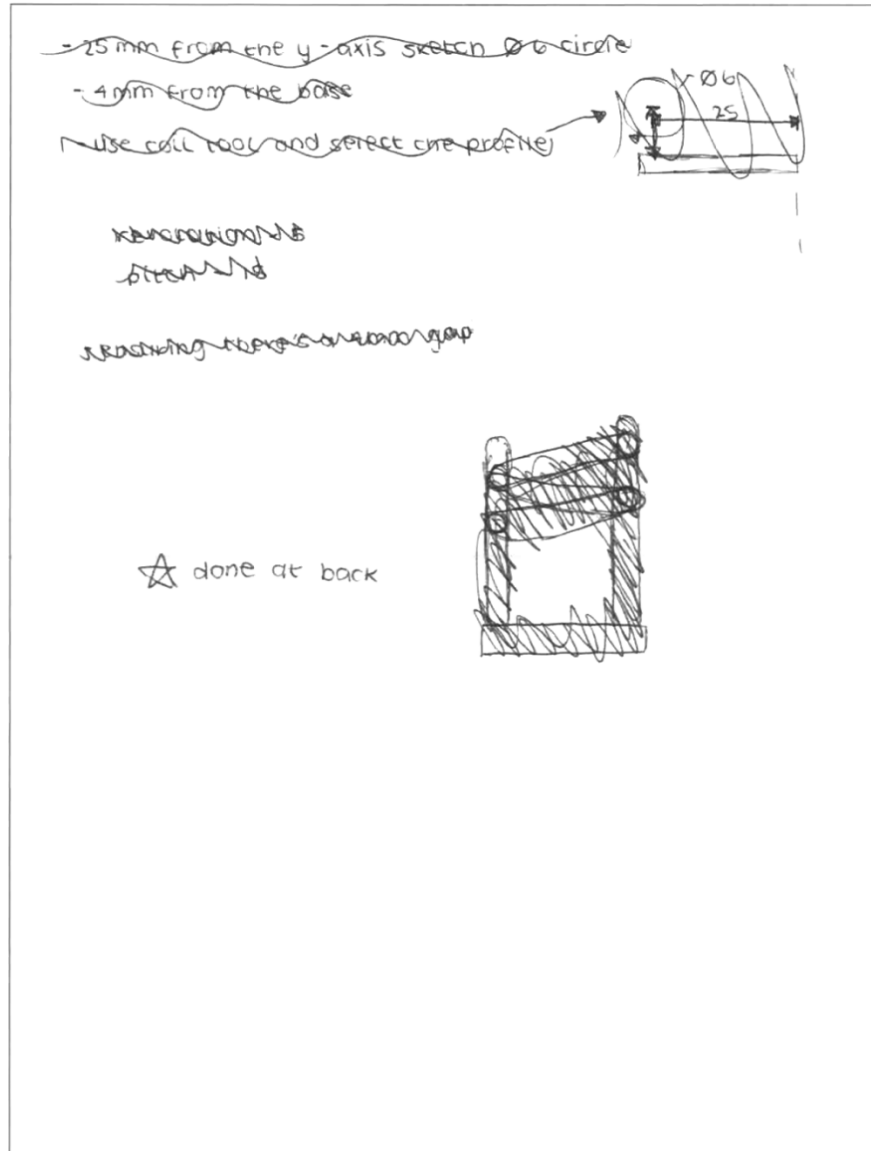
- (e) Describe the 3D CAD modelling techniques used to add the feature in Stage 2 of the prototype controller charging stand, shown opposite.

You must reference the dimensions in the drawing.

You may use sketches to support your answer.

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2. (continued)

The tech company hires freelance CAD technicians to create 3D models. They all use different CAD software.

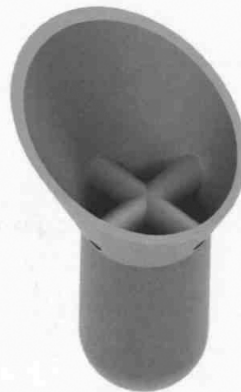
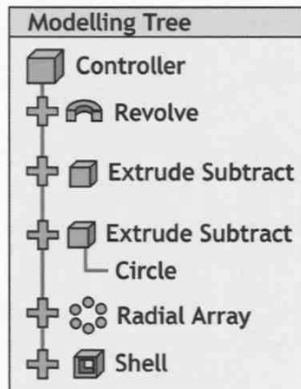
- (f) (i) State a suitable file format the CAD technicians can use to share models. 1

Any file

- (ii) Explain why using this file format is beneficial to the CAD technicians. 1

This file format is beneficial, as this file can be opened on any CAD software.

An error was made during the controller modelling process.



result with
modelling error

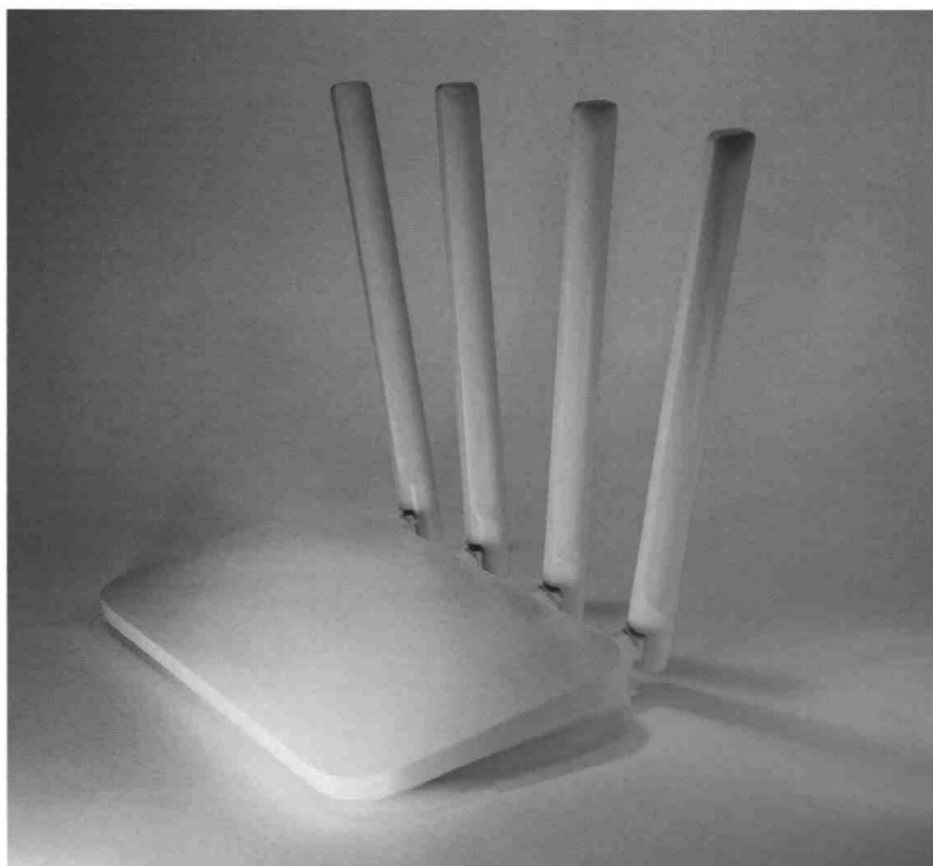


expected
end result

- (g) Describe the change that needs to be made to the modelling tree to fix the error and achieve the expected end result. 1

The shell needs to be removed and replaced by an extrude subtract to achieve the expected result.

3. A wireless router is being developed using CAD.



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3. (continued)

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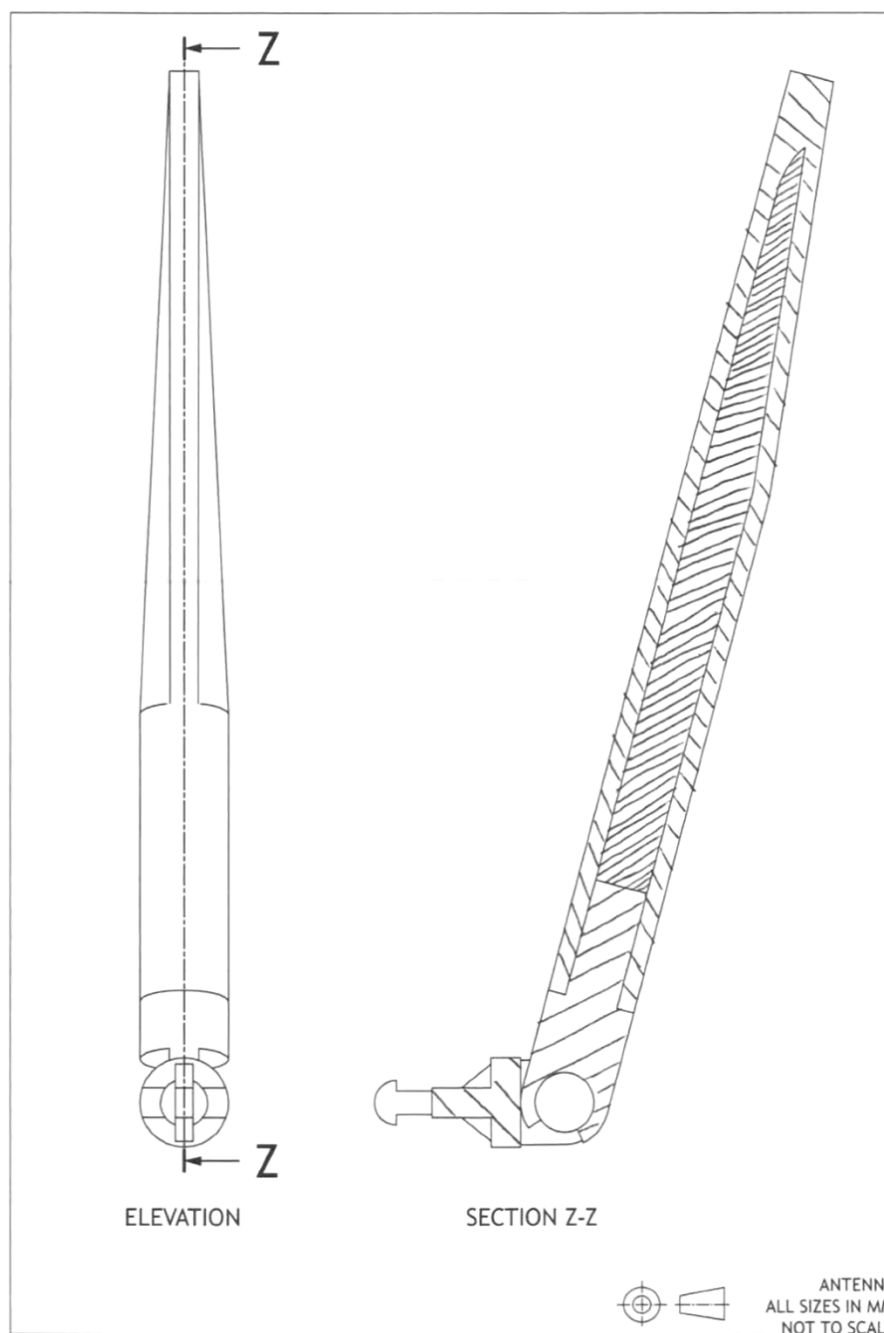
An incomplete sectional view of the wireless router antenna is shown below.

- (a) Complete the sectional view by adding appropriate hatching.

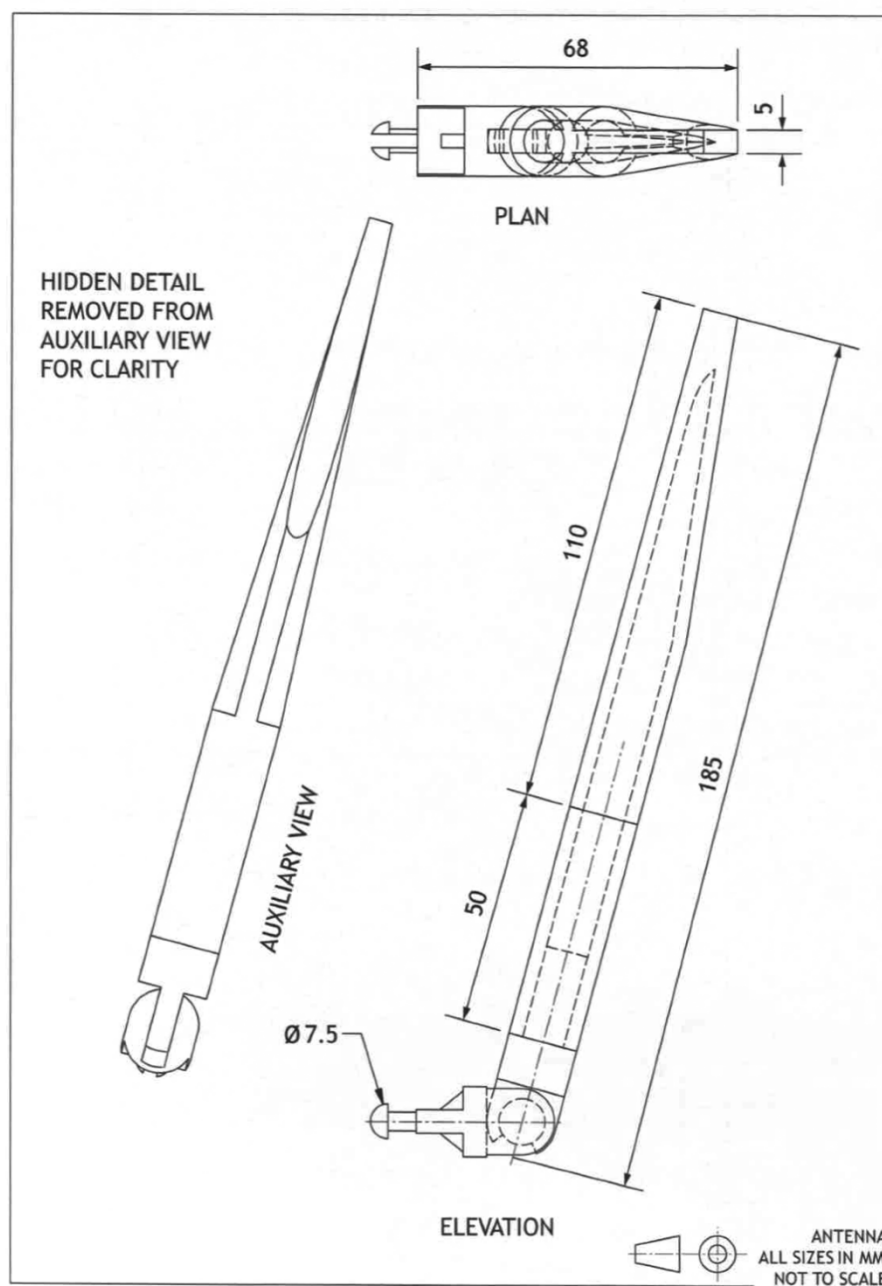
Use the information provided on **supplementary sheet 4**.

4

(Additional graphics, if required, can be found on *page 36*.)



3. (continued)

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3. (continued)

- (b) Identify **three** errors which are not correct to British Standard conventions in the drawing of the antenna, shown opposite.

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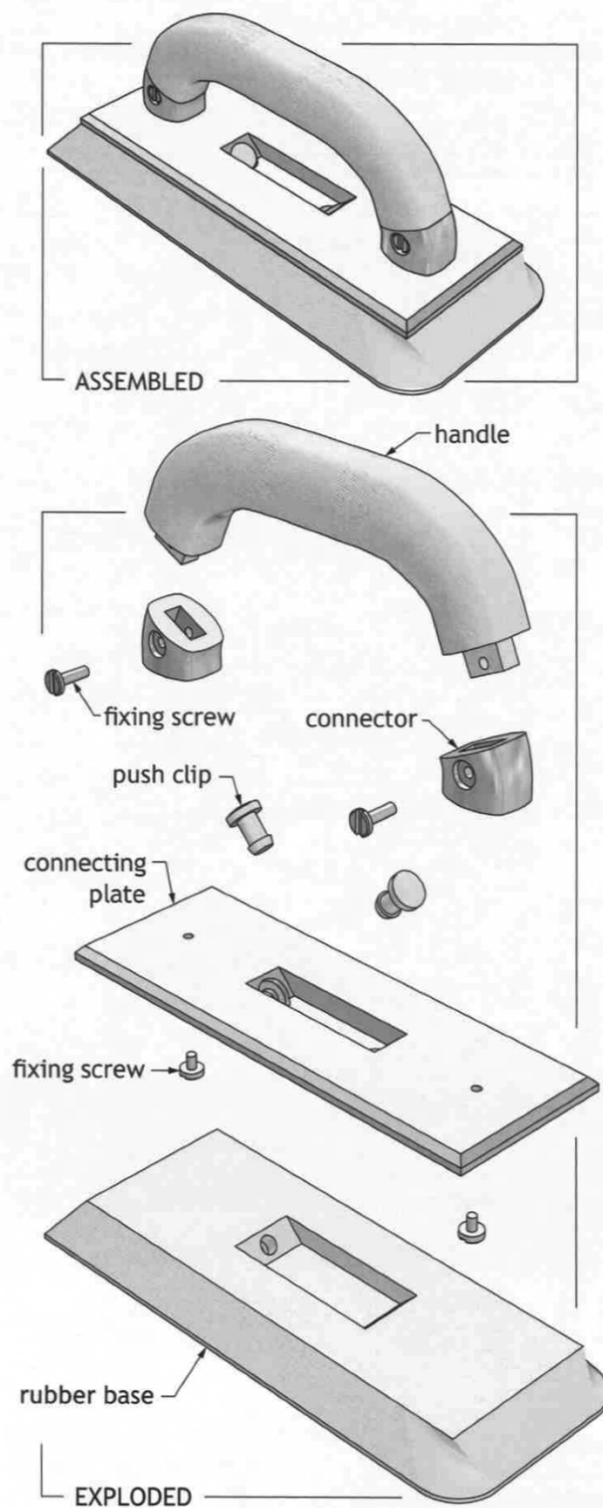
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3

- 1 The clip has a $\varnothing$ (diameter) where it shouldn't have
- 2 There is no dimension for the connector's length
the circle at the
- 3 There is no diameter for the back of the clip where the connector joins

4. A tiling company has produced the assembled and exploded view of a grout float shown below.

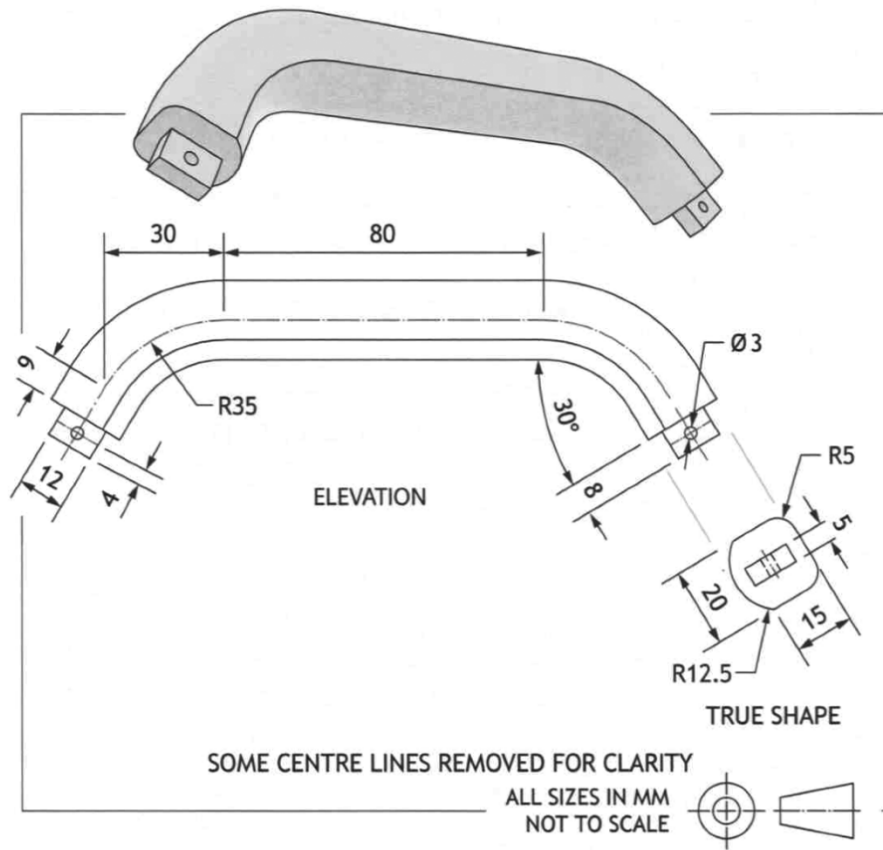
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4. (continued)			
(a) (i) Describe two examples of good practice in the exploded view.		2	
<u>One example of good practice is making sure no component</u>			
<u>parts are still touching or covering another.</u>			
<u>Another example is the removal of screws and clips</u>			
<u>displaying clearly all parts that were used / needed that may</u>			
<u>have been hidden</u>			
(ii) Describe, giving two examples, the purpose of an exploded view.		2	
<u>One purpose of an exploded view is to show how components</u>			
<u>join together.</u>			
<u>Another purpose is to show hidden components that other-</u>			
<u>wise cannot be seen.</u>			

4. (continued)

An orthographic drawing of the handle component is shown below.



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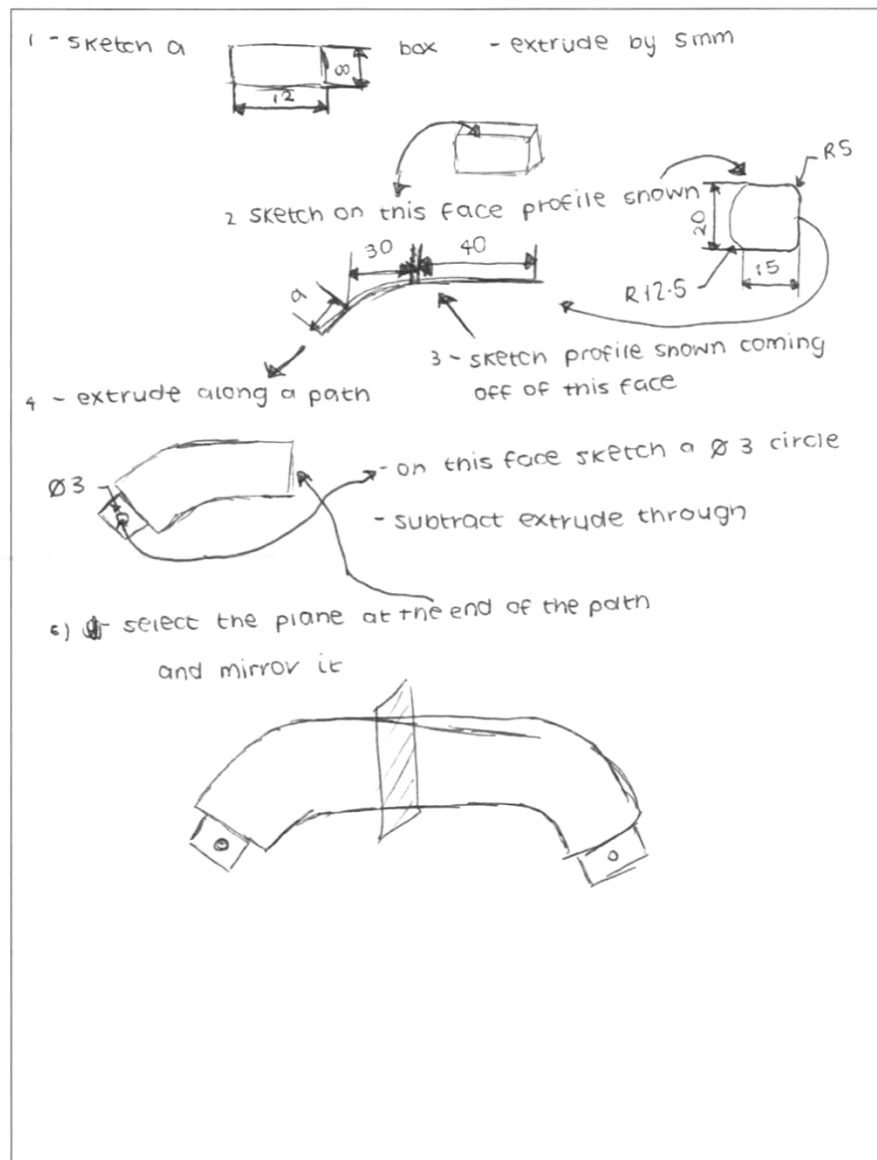
4. (continued)

- (b) Describe the 3D CAD modelling techniques used to model the handle component, shown opposite.

You must refer to the dimensions given in the drawing.

You may use sketches to support your answer.

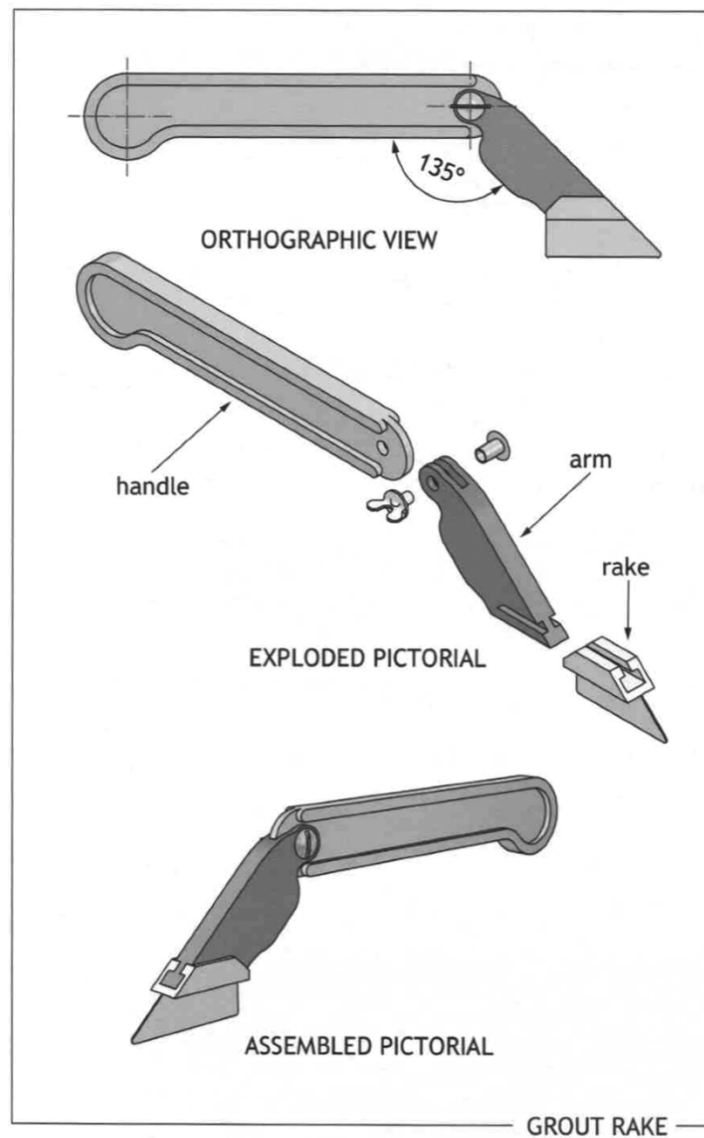
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4. (continued)

Graphics for a grout rake are shown below.



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4. (continued)

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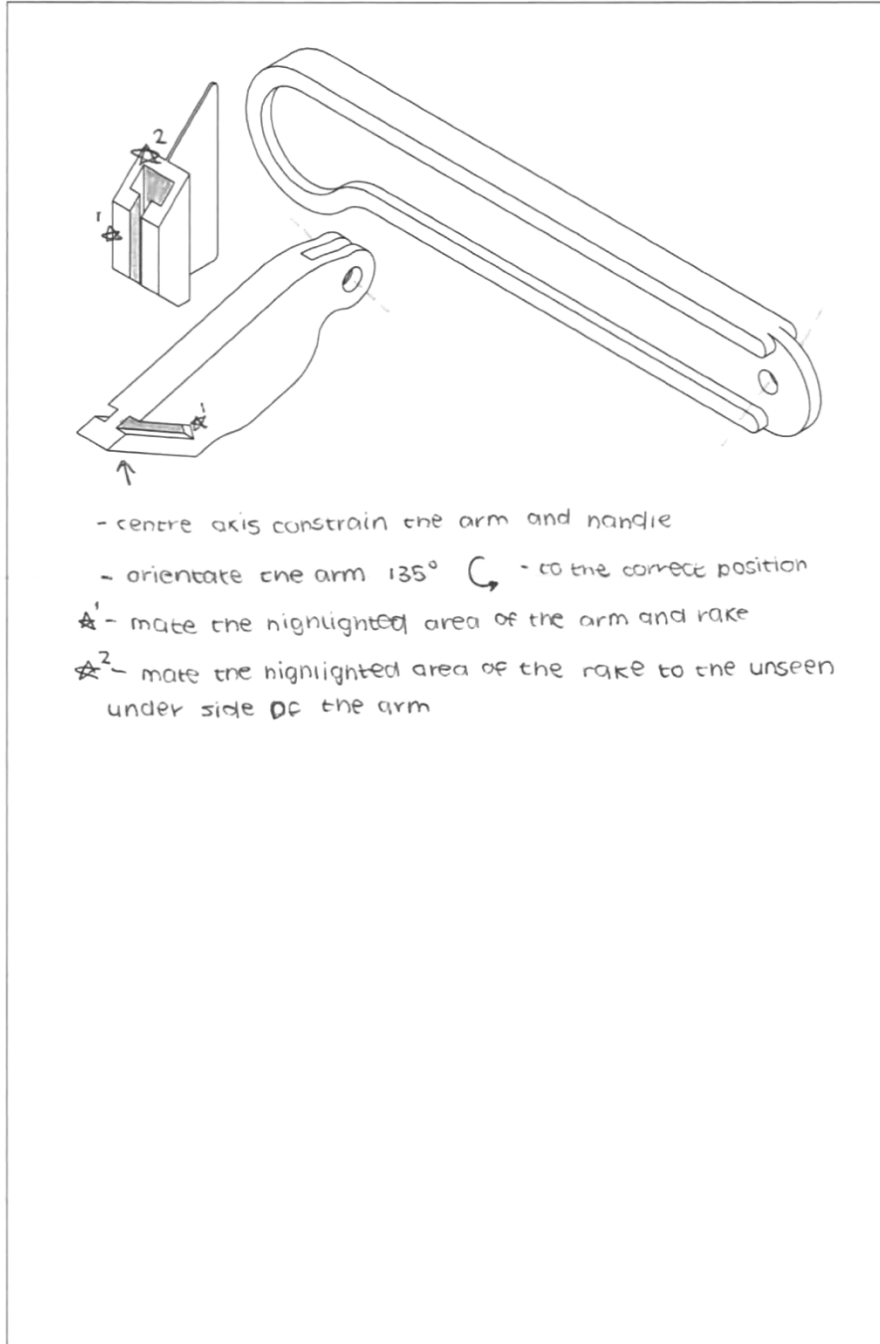
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- (c) Describe, using 3D CAD terms, how to constrain the three grout rake components, shown below.

You must constrain the arm and rake at a 135° angle to each other, as shown opposite.

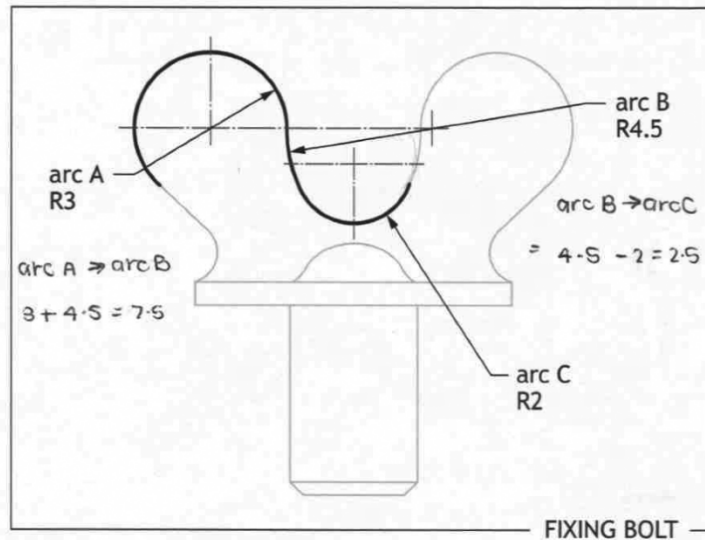
You may annotate the drawings and use sketches to support your answer.

4



4. (continued)

The fixing bolt component was modelled using tangency.



(d) Using the principles of tangency:

- (i) calculate the distance from the centre of arc A to the centre of arc B

1

$$\text{Arc A} \rightarrow \text{Arc B} = 7.5$$

- (ii) calculate the distance from the centre of arc B to the centre of arc C.

1

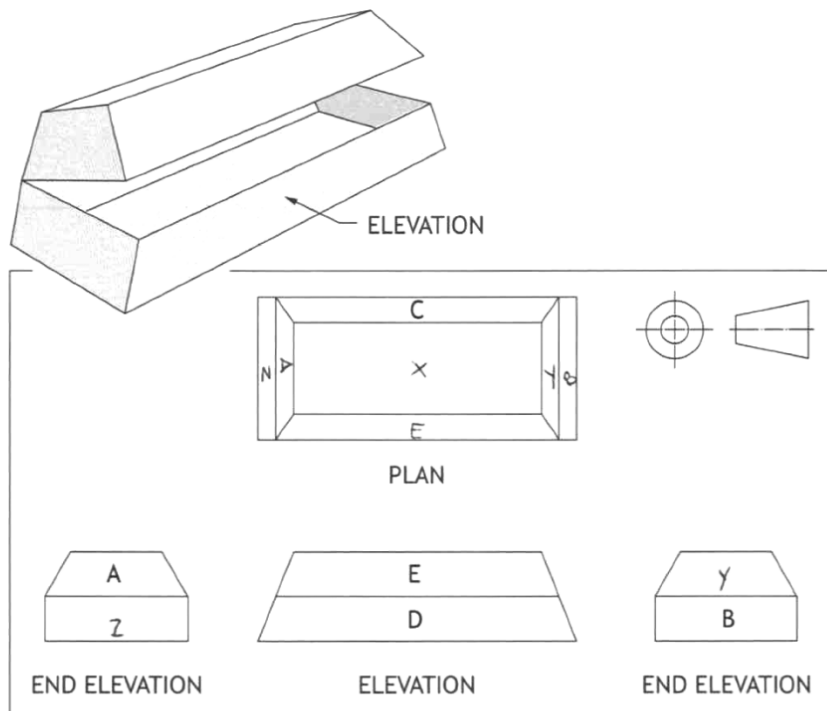
$$\text{Arc B} \rightarrow \text{Arc C} = 2.5$$

4. (continued)

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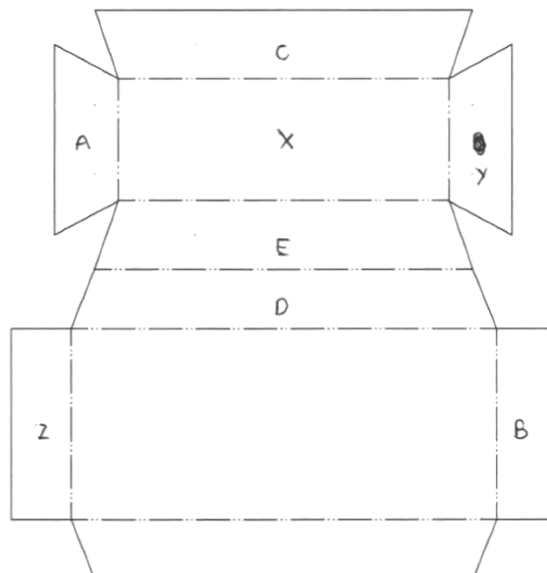
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Graphics for proposed packaging for the grout rake are shown below.



- (e) Identify the position of faces A–E on the surface development below.
The surface development is shown from the outside.
(An additional graphic, if required, can be found on *page 37*.)

5



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4. (continued)

Illustrations of the grout rake are shown below.

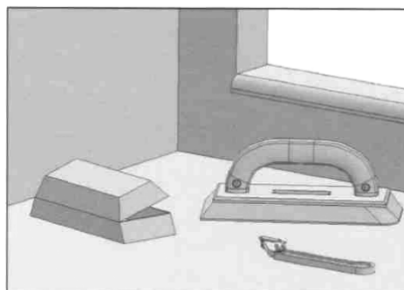


Illustration 1



Illustration 2

- (f) Describe two 3D rendering techniques applied to produce the graphic shown in Illustration 2.

2

one rendering technique applied is appearances, colour and material have visual interest and has been applied to make the products appear natural / realistic. Another technique is lighting, lighting has been applied to create highlights and shadows to create a realistic environment

- (g) Describe, giving two examples, how the use of a sited environment can improve an illustration.

2

One example ^{is} ~~also~~ it creates natural lighting, therefore creating more dimension and realism, showing the illustrations in a realistic way. Another example is it creates a view for windows, making it appear as though this illustration is in a real room.

5. A flyer for a soap company is shown below.

(i) →

(ii) ←

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**SCOTLAND'S NUMBER 1
SOAP & CLEANING SUPPLIER**

SARANTE SOAPS

OUR PRODUCTS

Whether you shop online or shop in store, you'll find a fantastic range of products to suit your cleaning needs. All of our products are manufactured using sustainable material.

OUR SERVICES

We offer a varied range of services for homes and business. Using our online booking system you can specify which services you require, and the frequency of visits. Our team of expert cleaners can keep your home or work environment looking its best all year round. For more information, visit our website, or contact our offices directly using the details below.

Text 1

Text 2

MAIN PERTH DEPOT

ADDRESS

Warehouse 72
North Cairn Street
Perth, Scotland

T: 02983 2228891
E: sa.soaps@enq.uk
W: www.sasoaps.co.uk

Flyer distribution date: May 2025

UDDINGSTON. PERTH. AVERMORE

HAMILTON. INVERNESS. HIRKCALDY

(iii) →

(iv) ←

(v) →

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5. (continued)			
(a)	State the name of the desktop publishing symbols and techniques labelled on the flyer shown opposite.		
(i)	printing symbol printing symbol mark	1	
(ii)	watermark -	1	
(iii)	Drop cap	1	
(iv)	column	1	
(v)	crop marks	1	
(b)	State the two different types of text justification labelled on the flyer shown opposite.	2	
	Text 1 <u>Justification to the left</u>		
	Text 2 <u>center justification</u>		
(c)	Describe the benefit of using the desktop publishing technique bleed in the flyer.	1	
	<u>The benefit of using bleed is it ensures the flyers design goes</u>		
	<u>right to the edge of the page, with no white border.</u>		

5. (continued)

The layout was produced using layers in DTP software.



- (d) Describe **two** advantages to the graphic designer of using layers to produce the layout.

2

One advantage of using layers is they can be easily edited, meaning that if changes need to be made it causes less disruption.

Another advantage is layers can be easily moved up and down when needed / to accommodate other layers

The images used on the flyer were photographed by the company's graphic designer.

- (e) Describe **two** benefits to the soap company of using images created by staff, rather than using stock images.

2

one benefit of using staff images is they have never been seen before meaning competitors can't have used them.

Another benefit is ~~that you don't have to~~ this is cheaper as they do not have to pay for the images unlike stock images, where you do.

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5. (continued)

A digital version of the flyer was produced, shown below.



- (f) Explain two benefits to consumers of accessing desktop published media digitally.

2

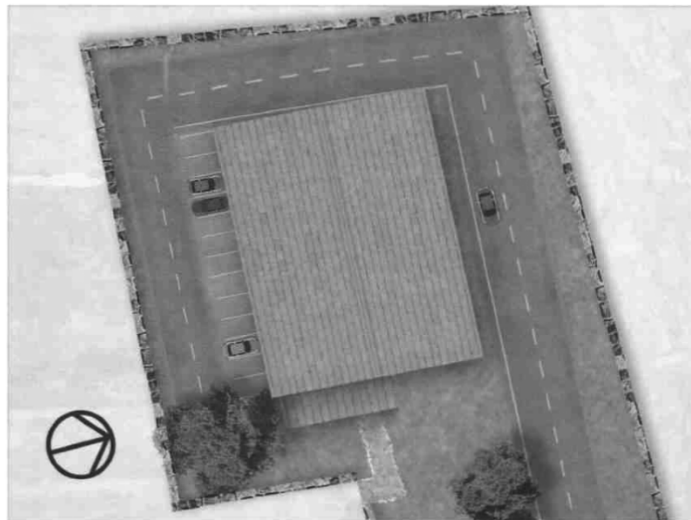
☆ finished at back

~~one benefit is to consumers is they are better zoom in to see graphics more clearly, meaning they can make informed decisions.~~

One ~~benefit~~ benefit is text can be made bigger by consumers if they find it to be a struggle to read, making it more accessible.

5. (continued)

A CAD technician produced a site plan of the soap company's main depot.



site plan

- (g) Describe, giving four examples, the information that the site plan communicates about the depot.

4

one example of information communicated is the way in which
the depot faces via the north symbol.

Another example is the space accounted for parking with clearly
indicated spaces. Another example is where the greenery would
be so the two trees indicated. A final example of information
is the path that leads to the entrance.

5. (continued)

A floor plan of the main depot was also produced. The graphic featured a range of British Standard symbols. Two are shown below.



symbol A



symbol B

(h) State the name of symbols A and B.

2

(i) Symbol A Radiator

Symbol B WC

(ii) Describe, giving two examples, how a CAD library would be useful for the CAD technician when producing the floor plan.

2

One example of a CAD library being useful for floor plans is

standard features such as doors and windows.

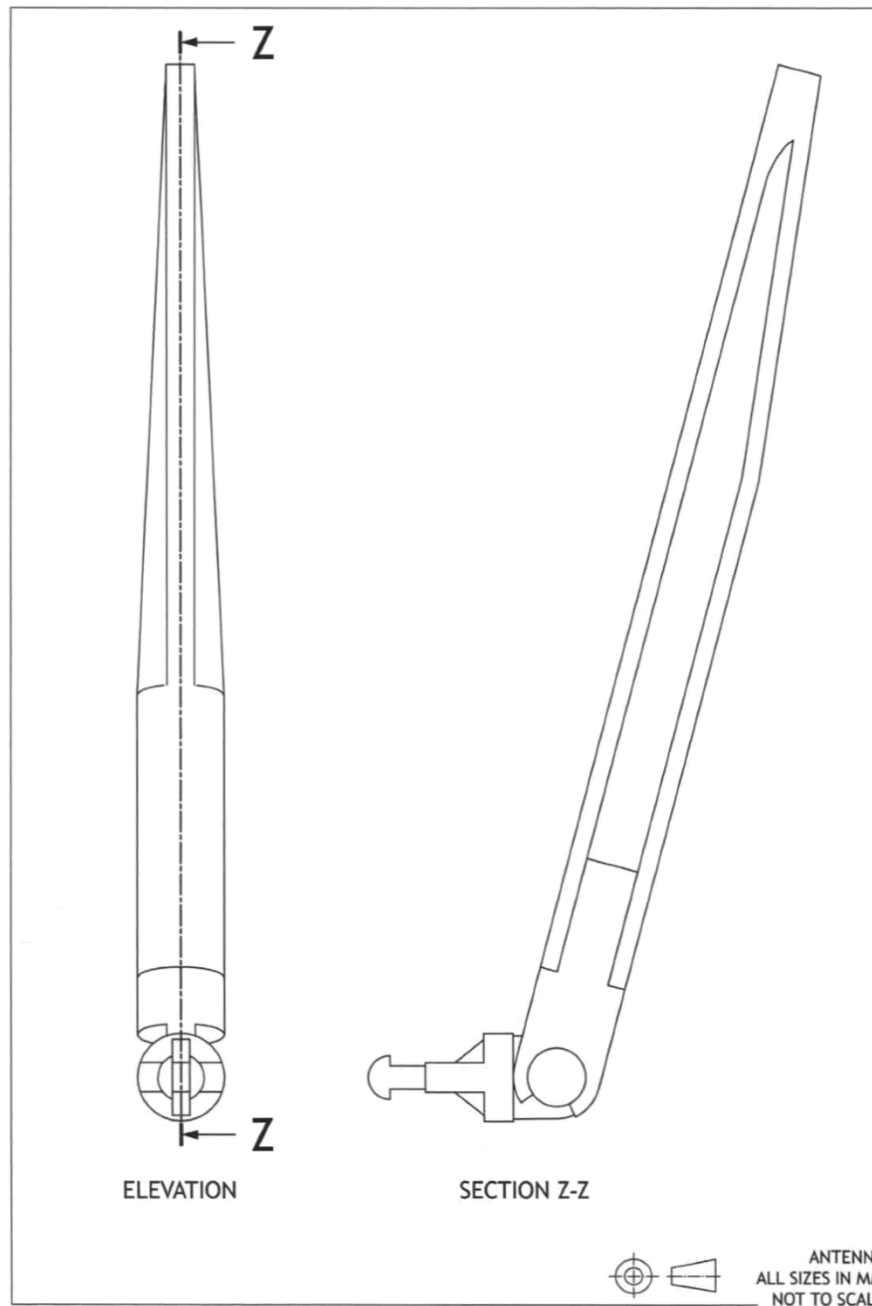
Another example is for furniture instead of the designer

having to make furniture they can use pre-existing furniture

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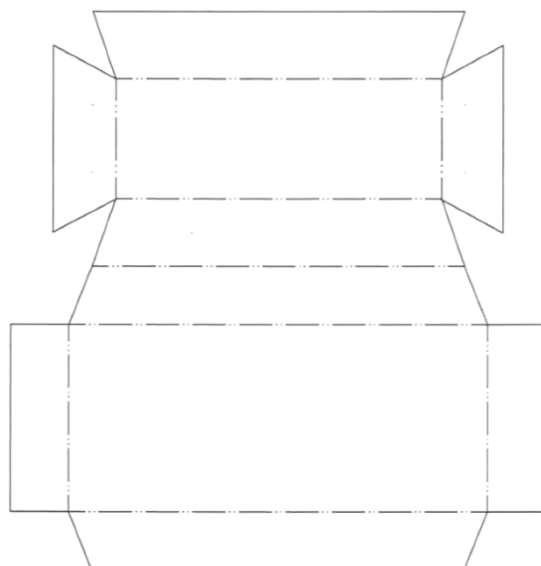
Additional graphics for question 3 (a)



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Additional graphic for question 4 (e)



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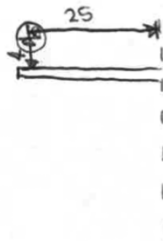
ADDITIONAL SPACE FOR ANSWERS

5) F) Another benefit is text to speech can be applied, making it more accessible for people with disabilities.

1) c) Another example is the transparent line, this contrasts with the solid line next to it as well as the background.

2) e) 25 mm from the y-axis and 4 mm from the base sketch a $\varnothing 6$

circle



- select the profile and use the coil tool

revolution - 4

pitch - 15

1) n) ii) square crop can be used to allow the designer to choose the part of the picture they want to keep and what they don't whilst keeping the picture's background.