

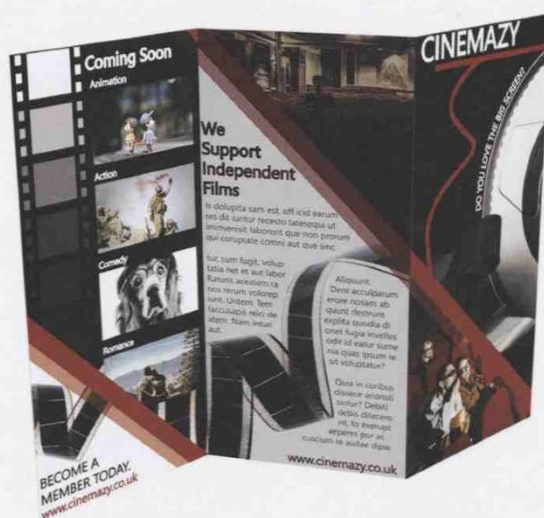
Candidate 3 evidence

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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

-They have use the contrasting colours green & red on page 4 with the confectionary prices.

-They have used the circular camera lenses next to the rectangular movie photos.

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

2

-They have created it with the camera lenses going down the middle of page 5.

-They have also used the rectangular pictures going down page 2.

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1. (continued)		
(c) Describe, giving two examples, how the graphic designer has used value in the layouts.	2	
*getting lighter. - They have used it on the left side of page 2 with the rectangles getting darker		
- they have also used it on the confectionary prices with the coloured rectangles*		
(d) Describe, giving two examples, how the graphic designer has created depth in the layouts.	2	
- the they used a drop shadow on the picture of the pop corn		
- They have made the diagonal red line transparent which creates depth		
(e) Describe, giving two examples, how the graphic designer has used alignment in the layouts.	2	
- All the genre pictures are aligned with each other as well as the text stating each genre.		
- The "on set" text & "off screen" text are aligned with each other		
(f) Explain, giving one example, why the graphic designer has used emphasis in the layouts.	1	
- They have made the word "independent" a different colour, creating emphasis		
-		
[Turn over]		

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MARGIN**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**

it can be ~~be~~ resized without
pixelation

- it has a smaller file size

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

- it makes it easier for
collaboration in work.

- it

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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

- the full cropping has created contrast.

- the square cropping has created rhythm

The graphic designer used placeholder text in the preliminary layouts.

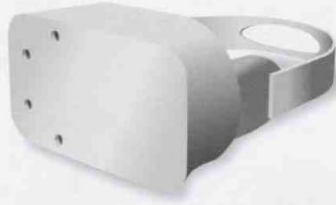
(i) Explain one advantage to the graphic designer of using placeholder text.

1

it helps the designer with the proportion of the text in within the layout.

[Turn over

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

components are made separately
& then joined together in an
assembly using constraints.

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

To show how the components
are joined together

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

1

stepped

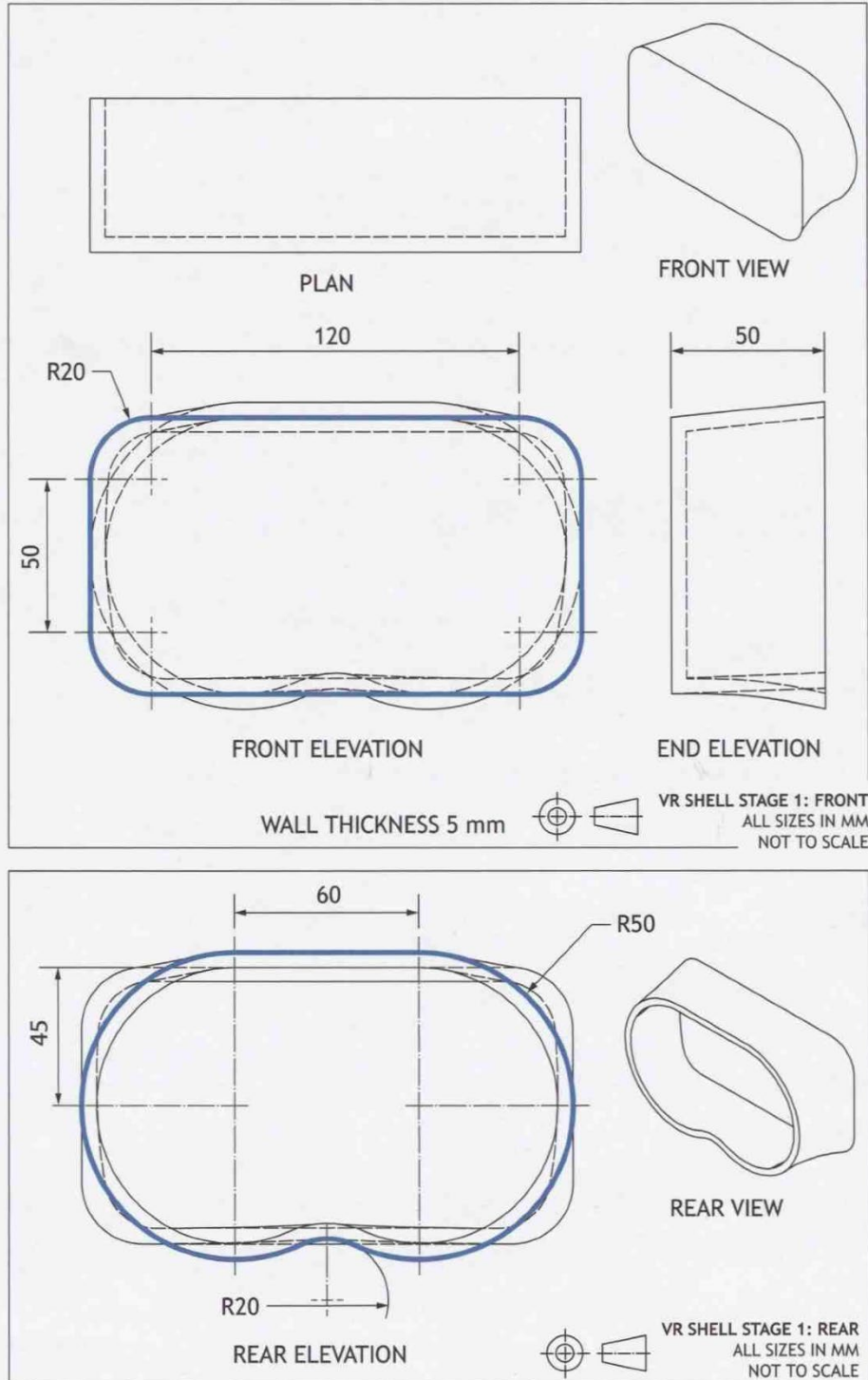
- (ii) State the name of the type of section shown at C.

1

removed

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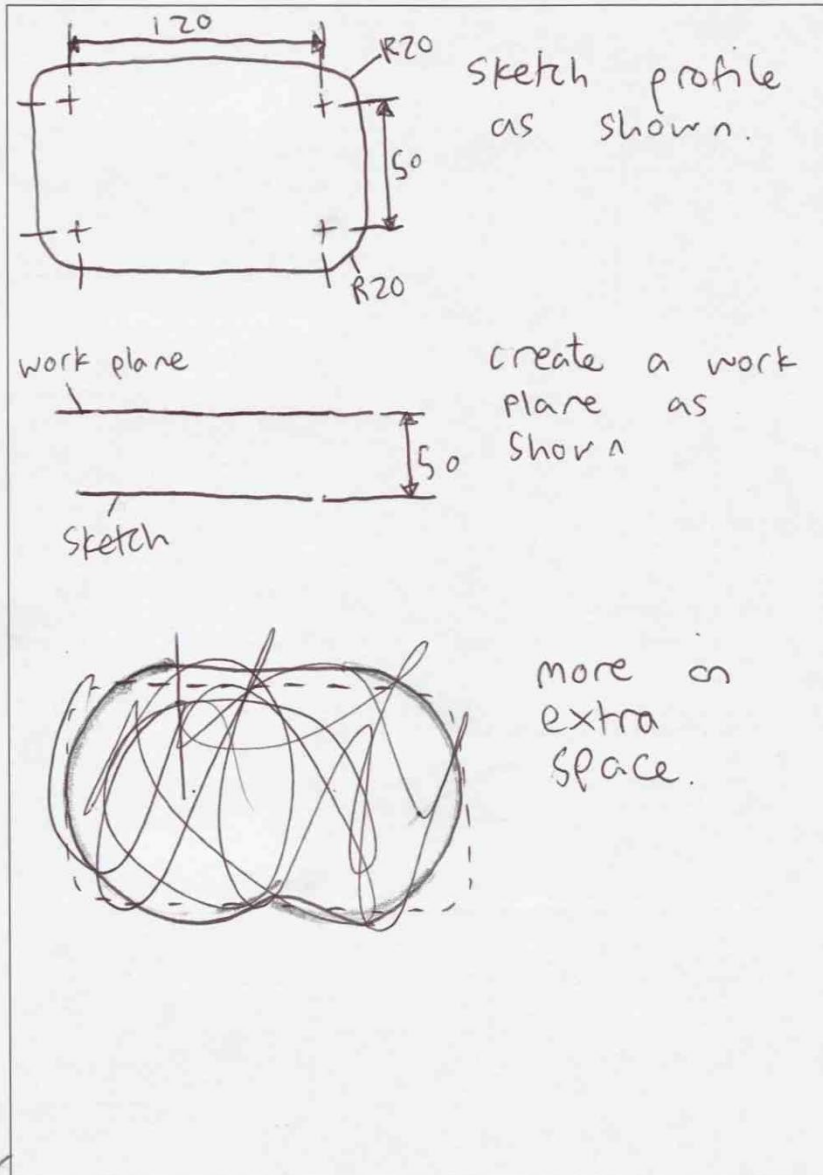
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- (d) (i) Describe the 3D CAD modelling techniques used to create stage 1 of the VR headset component, shown in the drawings opposite.

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



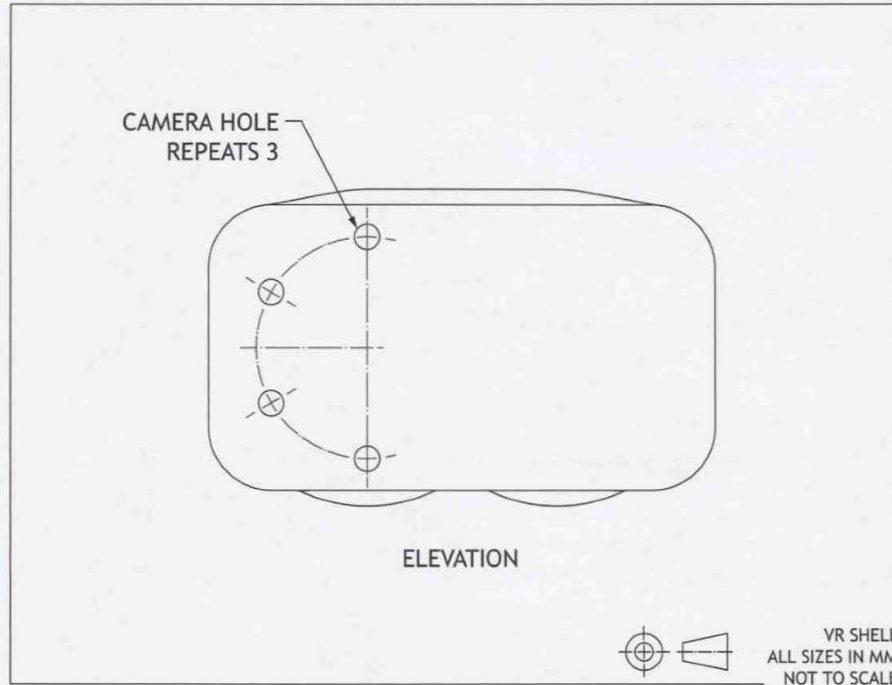
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2. (d) (continued)

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



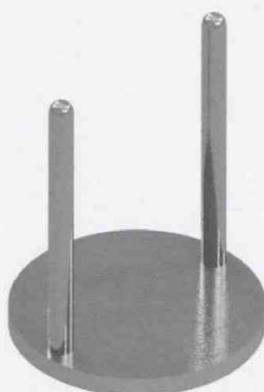
- (ii) State the name of the 2D CAD command used to create the repeated feature in the drawing above.

1

radial array

2. (continued)

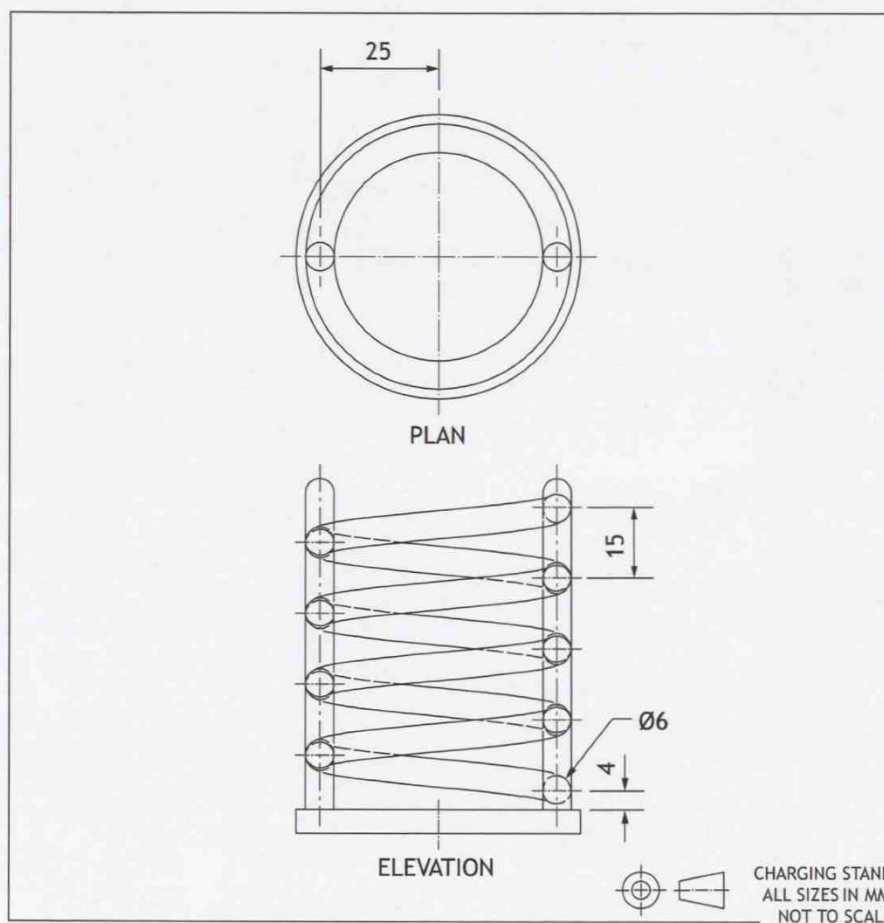
A prototype for a VR controller charging stand is shown below.



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.

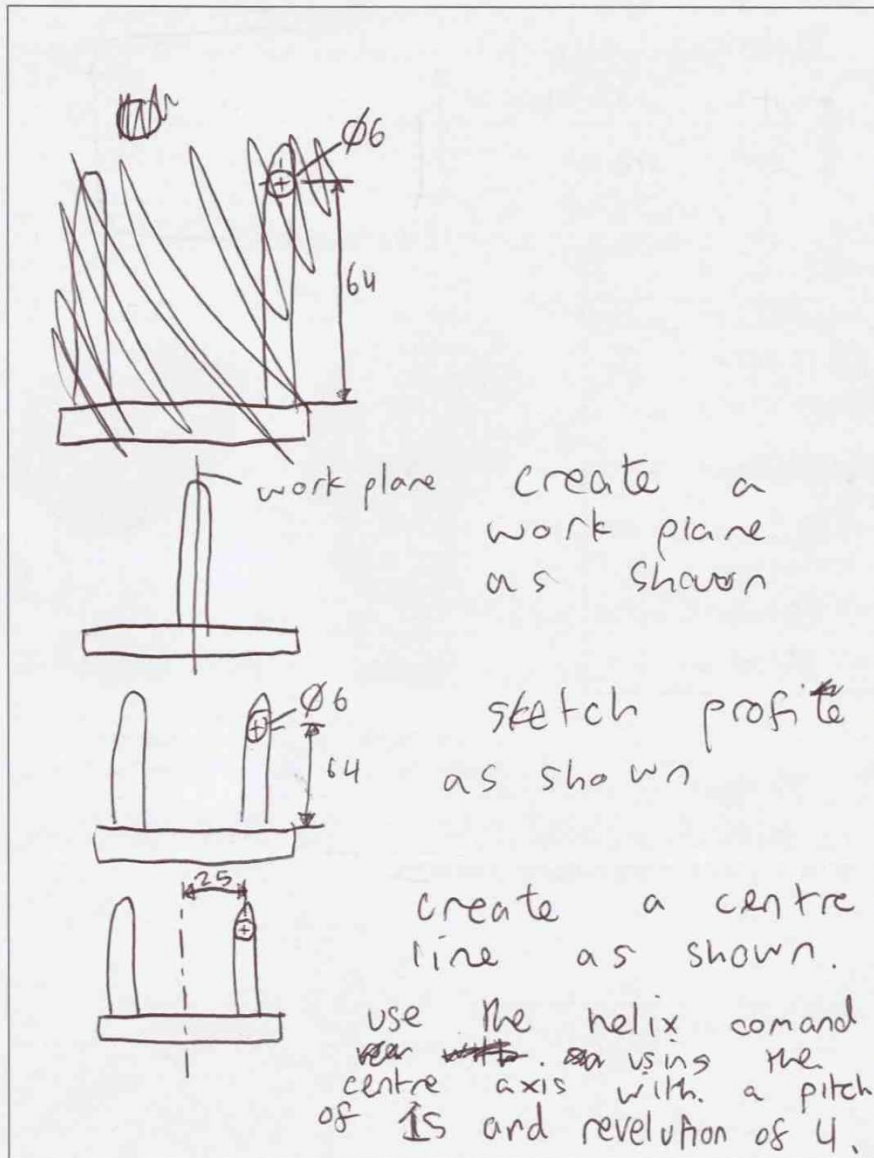
You must reference the dimensions in the drawing.

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.

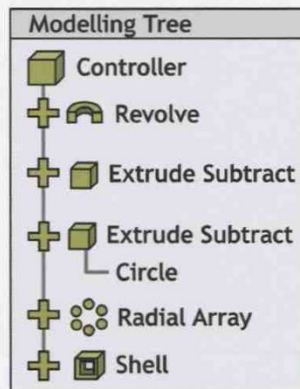
- (f) (i) State a suitable file format the CAD technicians can use to share models. 1

STEP

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

it can be opened in any CAD software

An error was made during the controller modelling process.



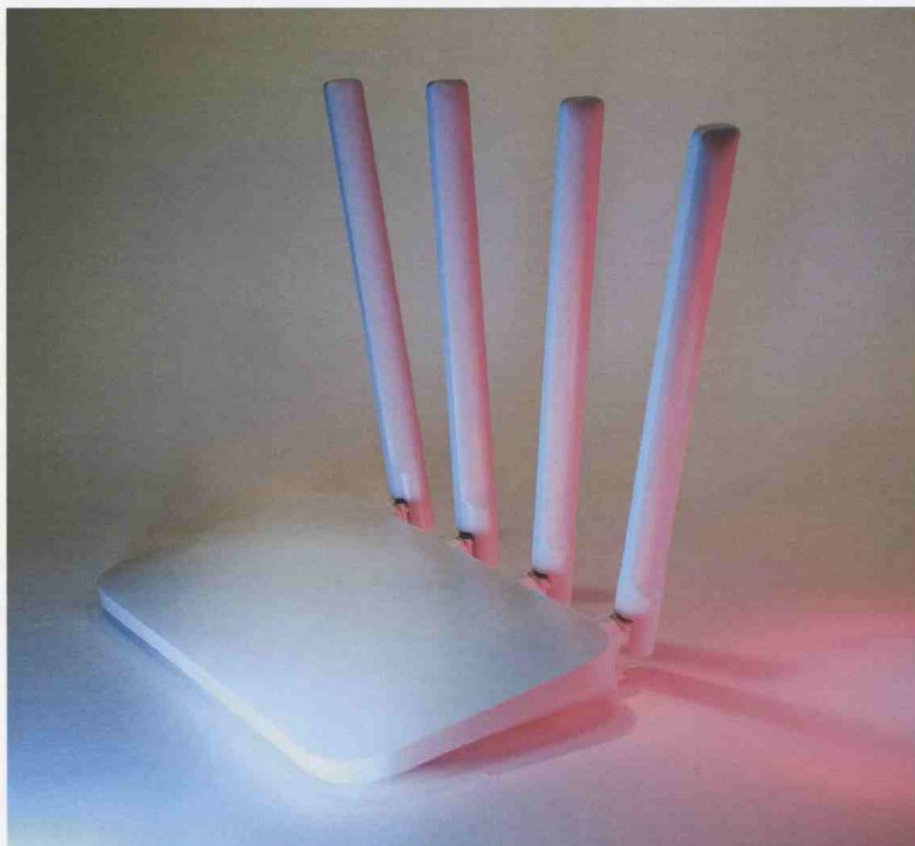
result with
modelling error



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

3. A wireless router is being developed using CAD.



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3. (continued)

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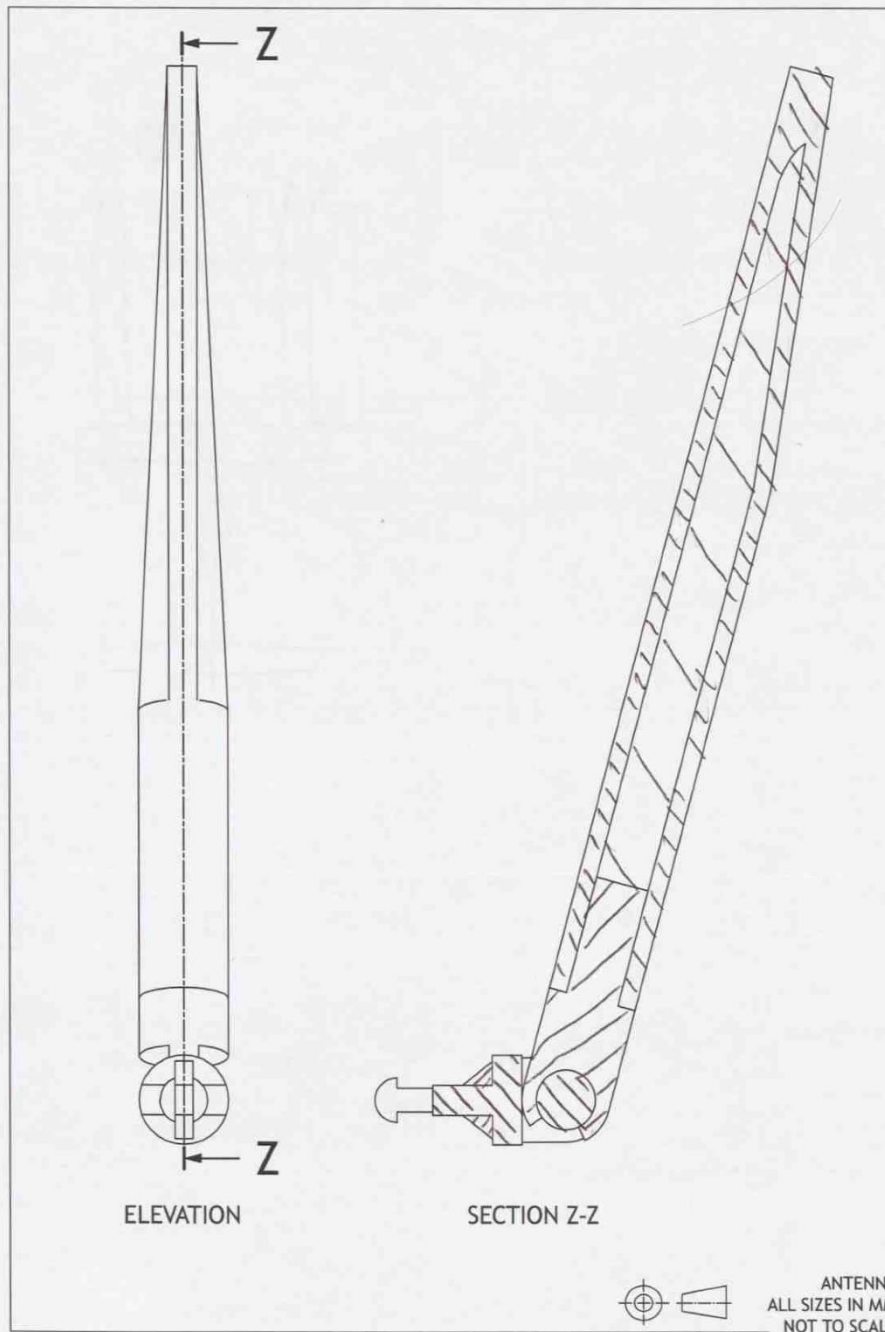
An incomplete sectional view of the wireless router antenna is shown below.

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

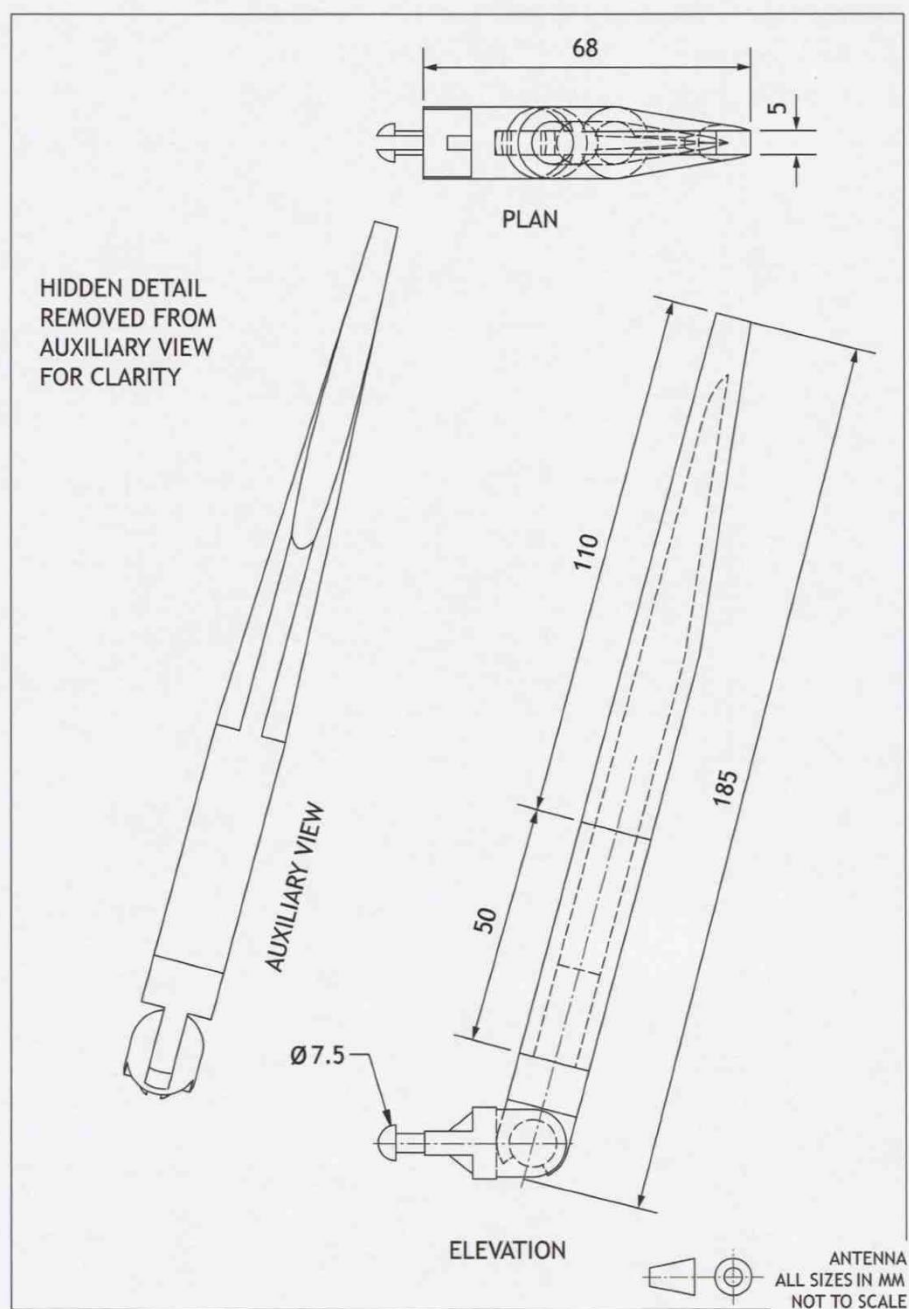
Use the information provided on **supplementary sheet 4**.

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.

3

1 They have ~~been~~ not given the orientation
of the moving part.

2

3 They've not given the scale

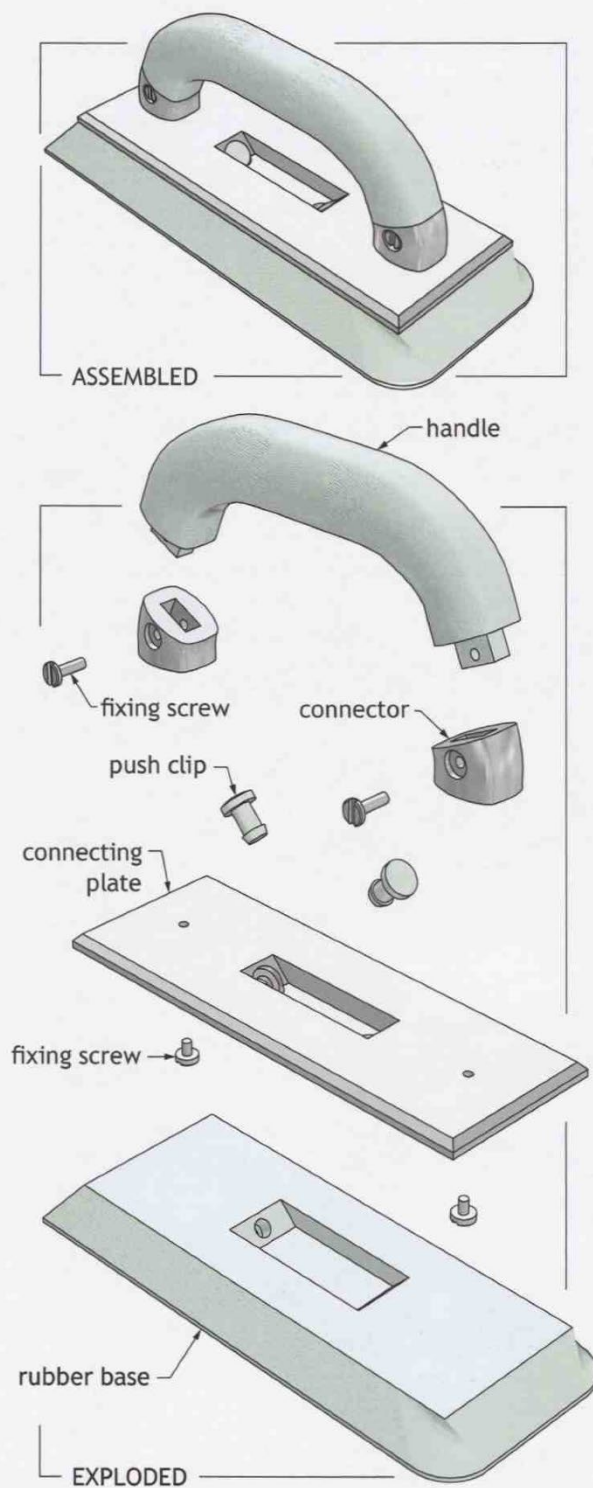
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4. A tiling company has produced the assembled and exploded view of a grout float shown below.

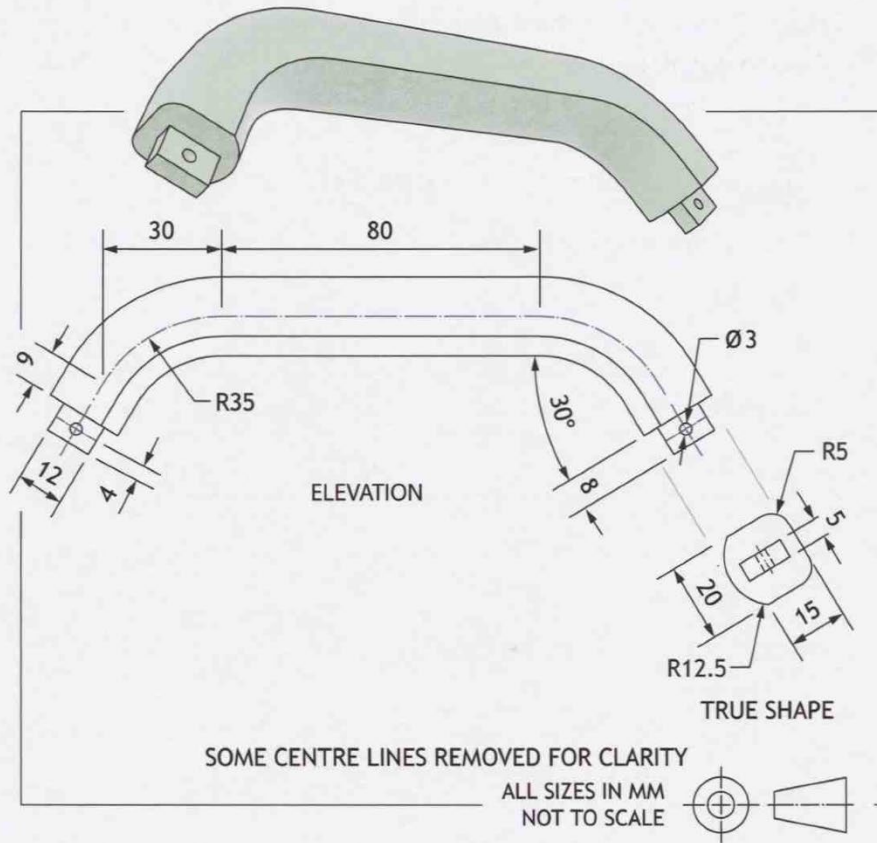
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4. (continued)			
(a)	(i) Describe two examples of good practice in the exploded view.	2	
	- There are gaps inbetween every component. - All the exp components are at the same angle		
	(ii) Describe, giving two examples, the purpose of an exploded view.	2	
	to - it shows how different components fit together, such as the connector & the fixing screws. - to show all the parts seperately		
		[Turn over	

4. (continued)

An orthographic drawing of the handle component is shown below.



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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5

sketch line as shown

create a work plane perpendicular to the line as shown.

sketch the profile as shown on the work plane

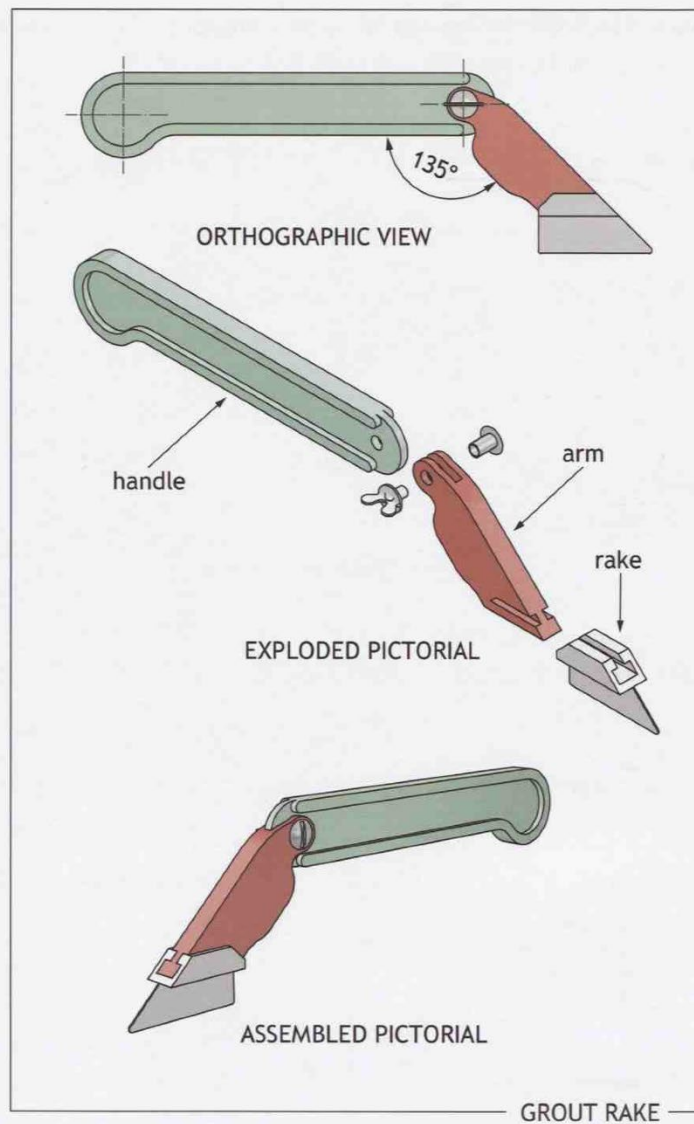
use extrude along a path.

sketch the profile as shown and extrude (add) by 8.

[Turn over]

4. (continued)

Graphics for a grout rake are shown below.



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4. (continued)

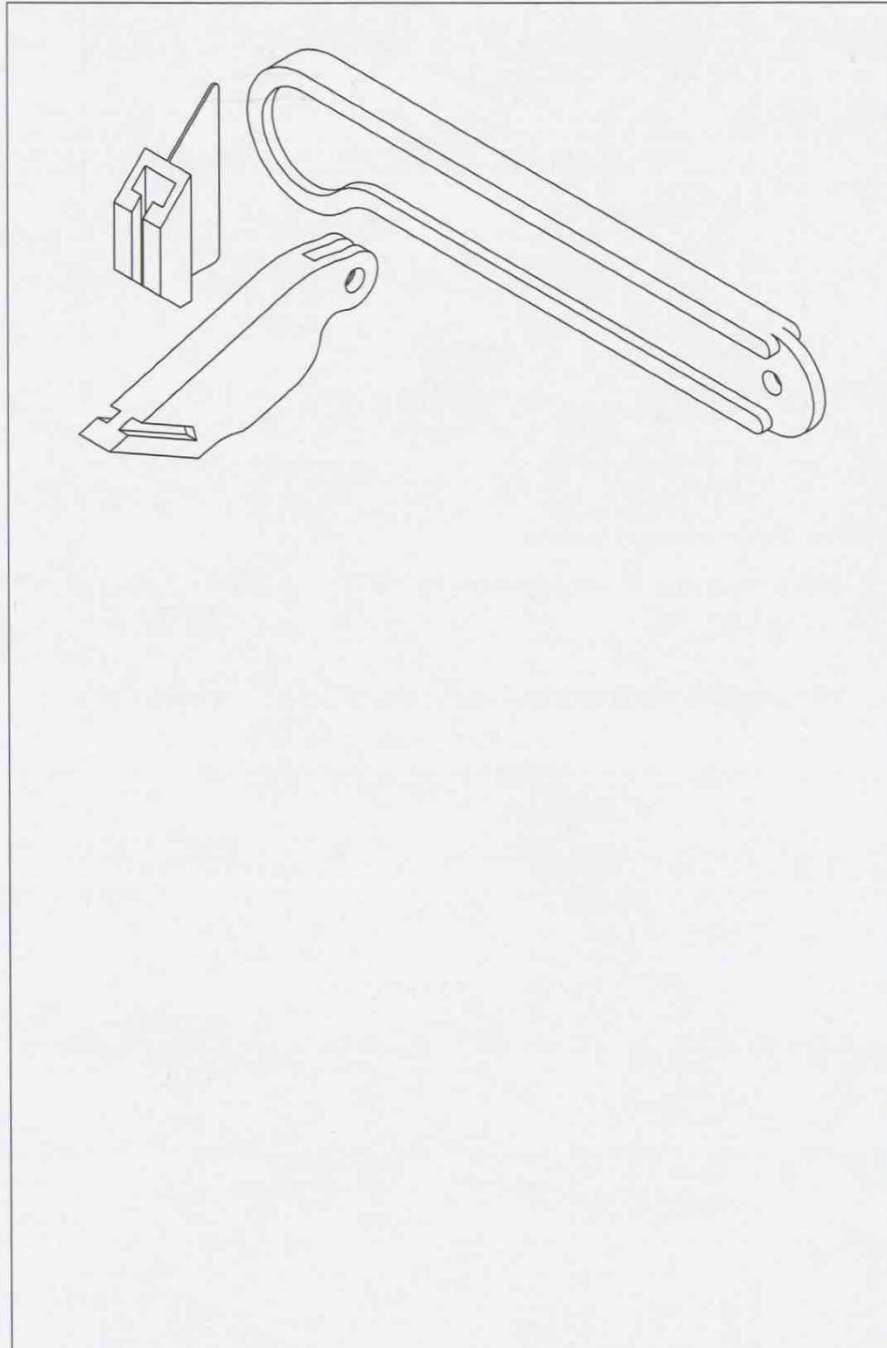
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- (c) Describe, using 3D CAD terms, how to constrain the three grout rake components, shown below.

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

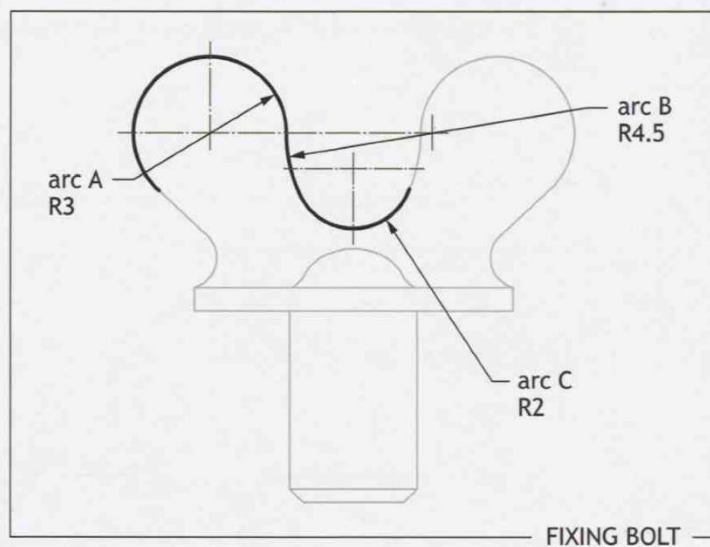
You may annotate the drawings and use sketches to support your answer.

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

7.5

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

1

2.5

MARKS

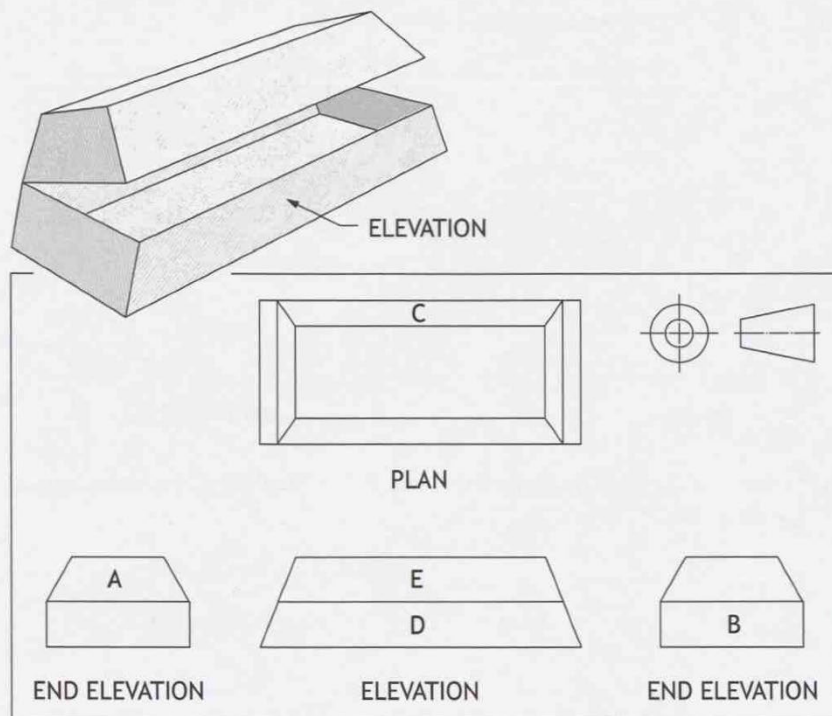
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4. (continued)

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

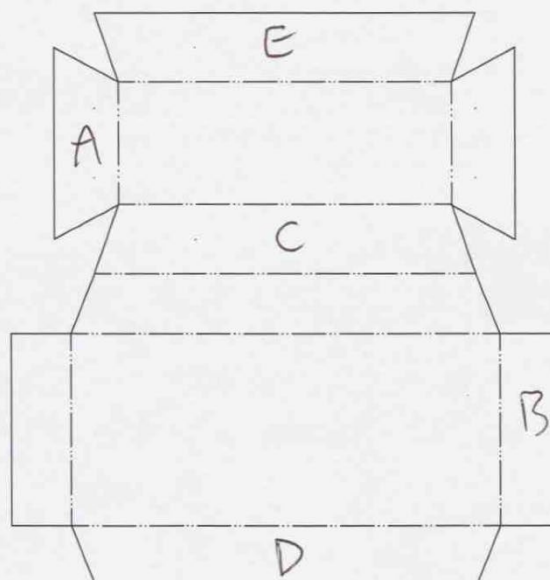


- (e) Identify the position of faces A–E on the surface development below.

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.

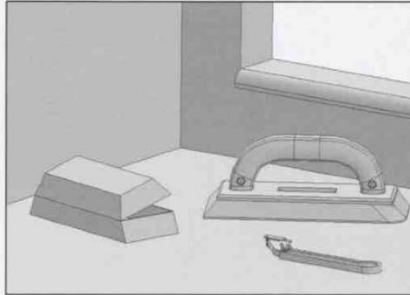


Illustration 1



Illustration 2

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

2

- texture is used on the wooden counter.
- shadow is used under the window sill.

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

2

- using texture can show how the object will look like in real life
- it shows the object in proportion to its environment.

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

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(i) →

© SaranteSoaps 2025 (ii)

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

SARANTE SOAPS

OUR PRODUCTS

(iii) → **W**hether 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.

- Organic soaps
- Bath bombs
- Citrus cleaners
- Stain removers
- Industrial bleaches
- Artisan soaps
- Odour removers
- Un-perfumed soaps
- Vegan products

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.

(iv)

Text 1

Text 2

MAIN PERTH DEPOT

ADDRESS

Warehouse 72
North Cairn Street
Perth, Scotland

T: 02983 22288891
E: sa.soaps@enq.uk
W: www.sasoaps.co.uk

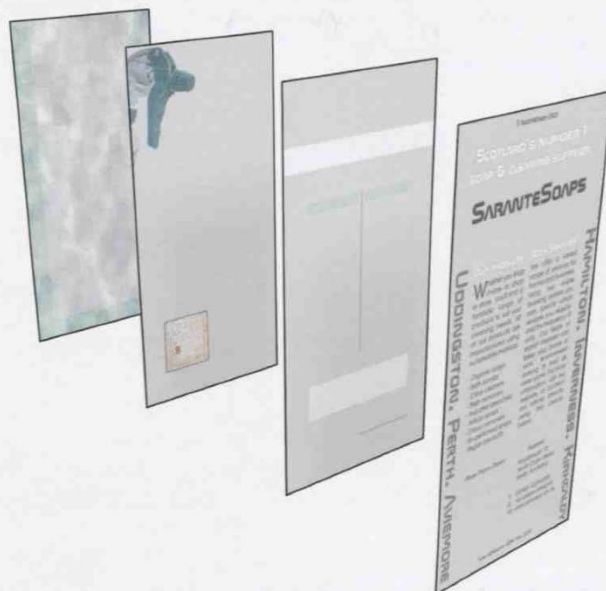
Flyer distribution date: May 2025

(v) →

		MARKS	DO NOT WRITE IN THIS MARGIN
5. (continued)			
(a) State the name of the desktop publishing symbols and techniques labelled on the flyer shown opposite.			
(i)	registration marks	1	
(ii)	water mark	1	
(iii)		1	
(iv)	column rule	1	
(v)	crop marks	1	
(b) State the two different types of text justification labelled on the flyer shown opposite.		2	
Text 1	full		
Text 2	centre		
(c) Describe the benefit of using the desktop publishing technique bleed in the flyer.		1	
means it is there ^{is} not white around the edges of the flyer.			
[Turn over			

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

- each layer can be edited ~~separ~~
~~separately~~ separately making it easier
 - layers can be locked when
 finished with them, meaning they
 won't get accidentally edited.

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

- no other company will have
 the images making theirs unique.
 - other companies might see them
 and want to buy them,
 making the company money.

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

- it can be viewed in the dark due to the light emitted from the phone
- the reader can zoom in making it easier to read if needed

- The reader can zoom in making it easier to read if need be

[Turn over

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

- it shows the way the depot is facing by giving true north.
- it shows the size in proportion to the cars.
- it shows where there will be trees.

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 wash closet / wc

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

2

- files can be easily shared
between people for easy
communication with people involved
~~symbols can~~

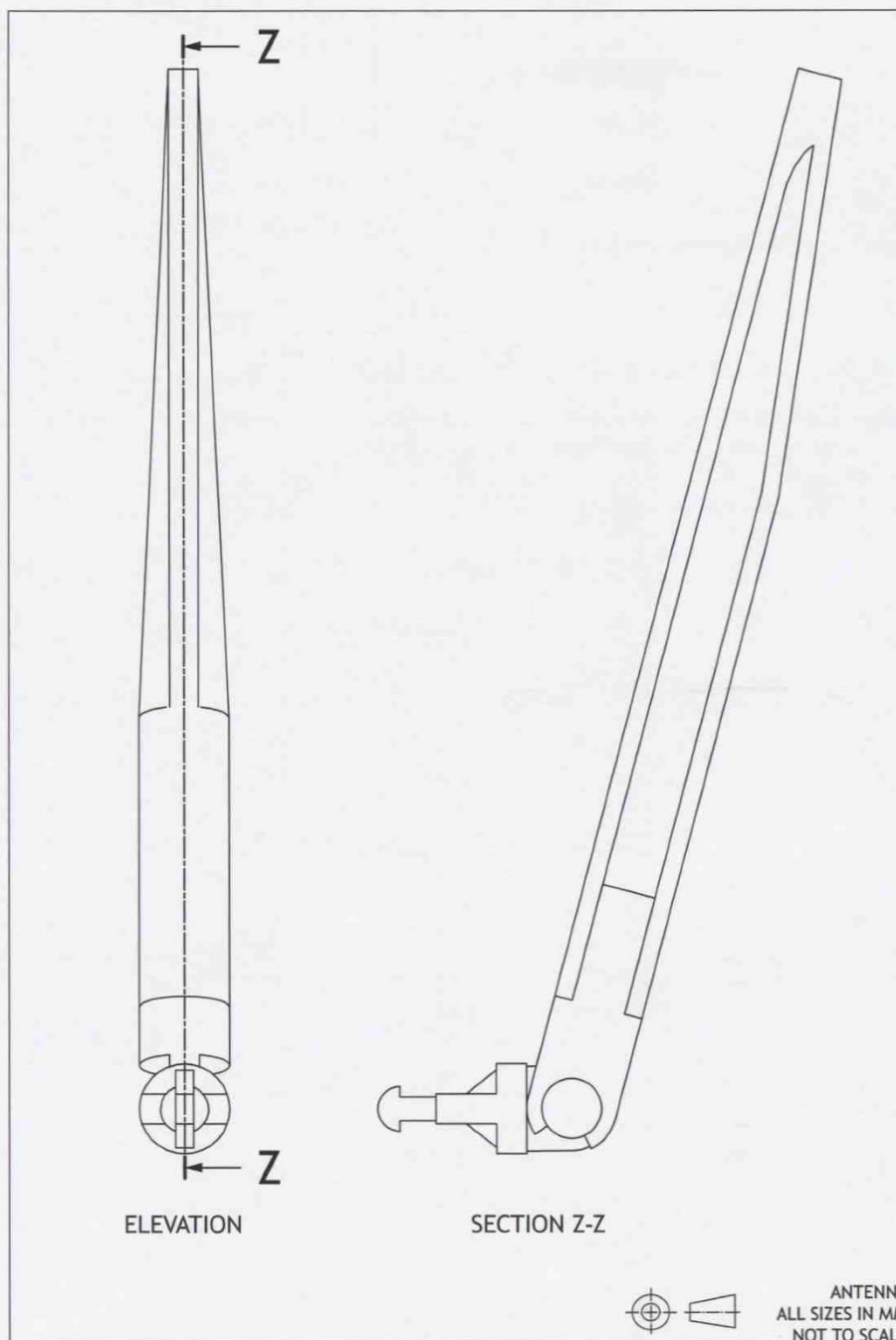
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ADDITIONAL SPACE FOR ANSWERS

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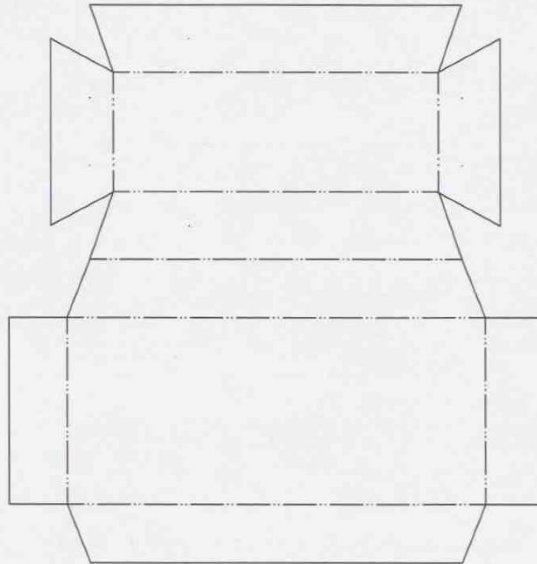
Additional graphics for question 3 (a)



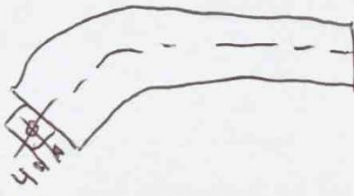
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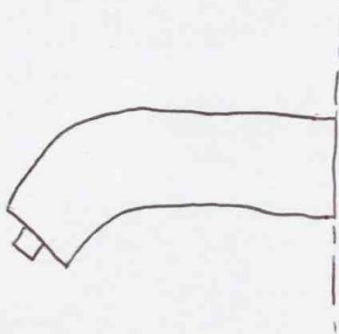
Additional graphic for question 4 (e)



4b.



Sketch the circle
as shown with a
diameter of 3
and extrude (subtract)
by 5.



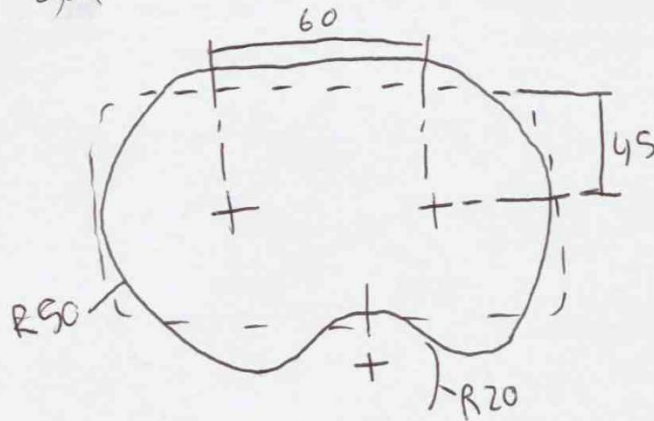
Create a centre line
as shown.

then use the mirror
tool using that centre
axis.

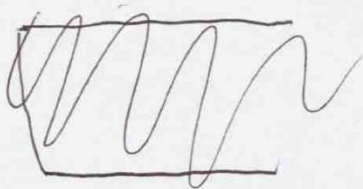
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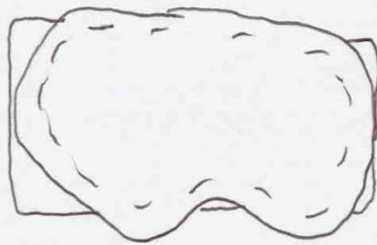
2d(i)



Sketch the
profile on the
work plane
as shown.



use the loft
command



use the shell
command on
the face as
shown with a
wall thickness of
5mm.