

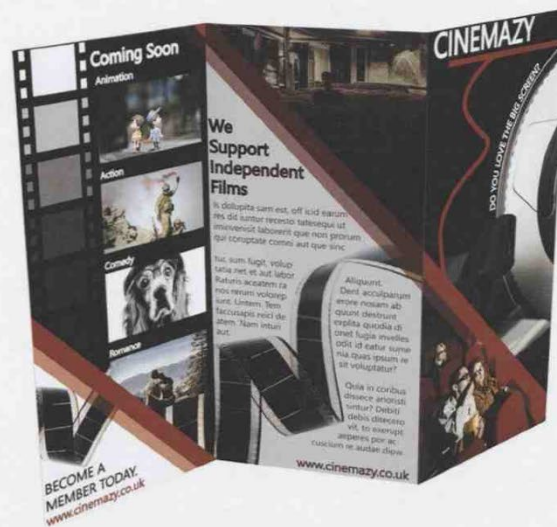
Candidate 5 evidence

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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

The designer has used red ribbons next to and against black ribbons. The graphics of the twisted film tape contrasts with the straight red lines going across the page.

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

2

The repeated use of the twisted graphics and lines and the repeated use of the straight angle lines going through the page, and underlining #

Pg 38

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1. (continued)

- (c) Describe, giving **two** examples, how the graphic designer has used value in the layouts.

2

The boxes on the left side of the Post page go from white to dark grey going down the page. The red and green boxes get more and more transparent as they go to the left.

- (d) Describe, giving **two** examples, how the graphic designer has created depth in the layouts.

2

The graphic of the popcorn has got a drop shadow on it and the corner lens graphic in the ("Halloween") "Halloween night" have got drop shadows.

- (e) Describe, giving **two** examples, how the graphic designer has used alignment in the layouts.

2

In the "coming over" ~~section~~ section all of the text and graphics are aligned along the left side. The orange and red bars next to the prices are aligned horizontally and vertically with each other.

- (f) Explain, giving **one** example, why the graphic designer has used emphasis in the layouts.

1

The red text against the black background creates contrast and draws the viewer's eye to the text.

[Turn over]

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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

The logo can be resized and not lose any detail and will have a smaller file size.

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

Can be viewed from ~~anywhere~~ anywhere in the world.

Images can be edited by two people at the same time.

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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 FULL CROP
Image 2 Box crop

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

2

The full crop has created unity from using circles throughout the layout. The box crop has created balance with all of the "coming soon" images to be the same size.

The graphic designer used placeholder text in the preliminary layouts.

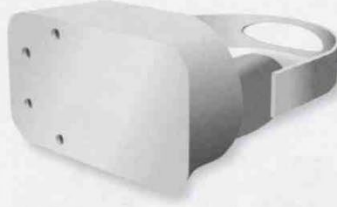
(i) Explain one advantage to the graphic designer of using placeholder text.

1

It is a good way of showing where text would be to the company that graphic designer is pitching to

[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

When parts have been made separately
and then been put together in an
assembly file

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 2 parts fit together
at a bigger ~~scale~~ scale

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

1

A step section

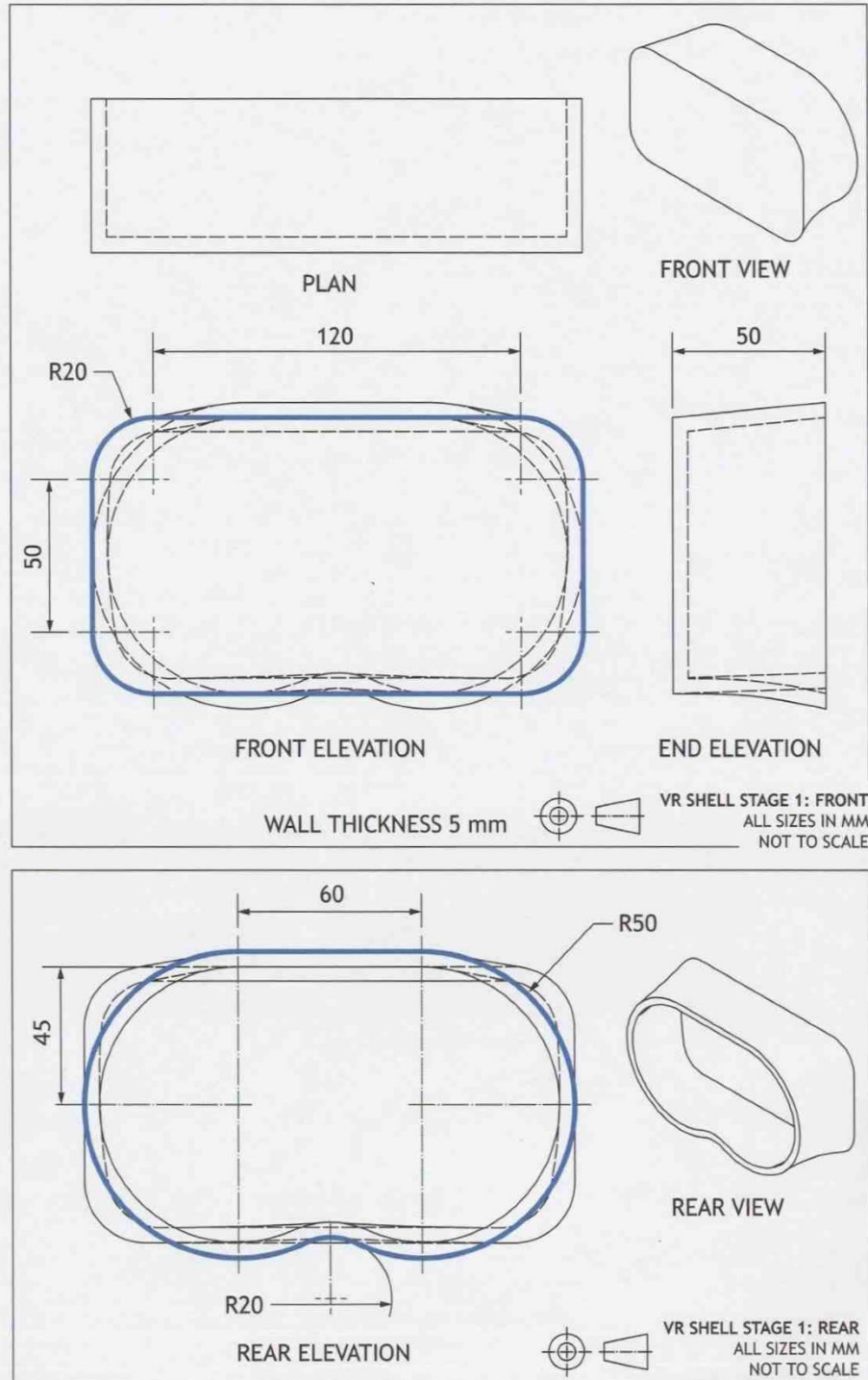
- (ii) State the name of the type of section shown at C.

1

A revolved section

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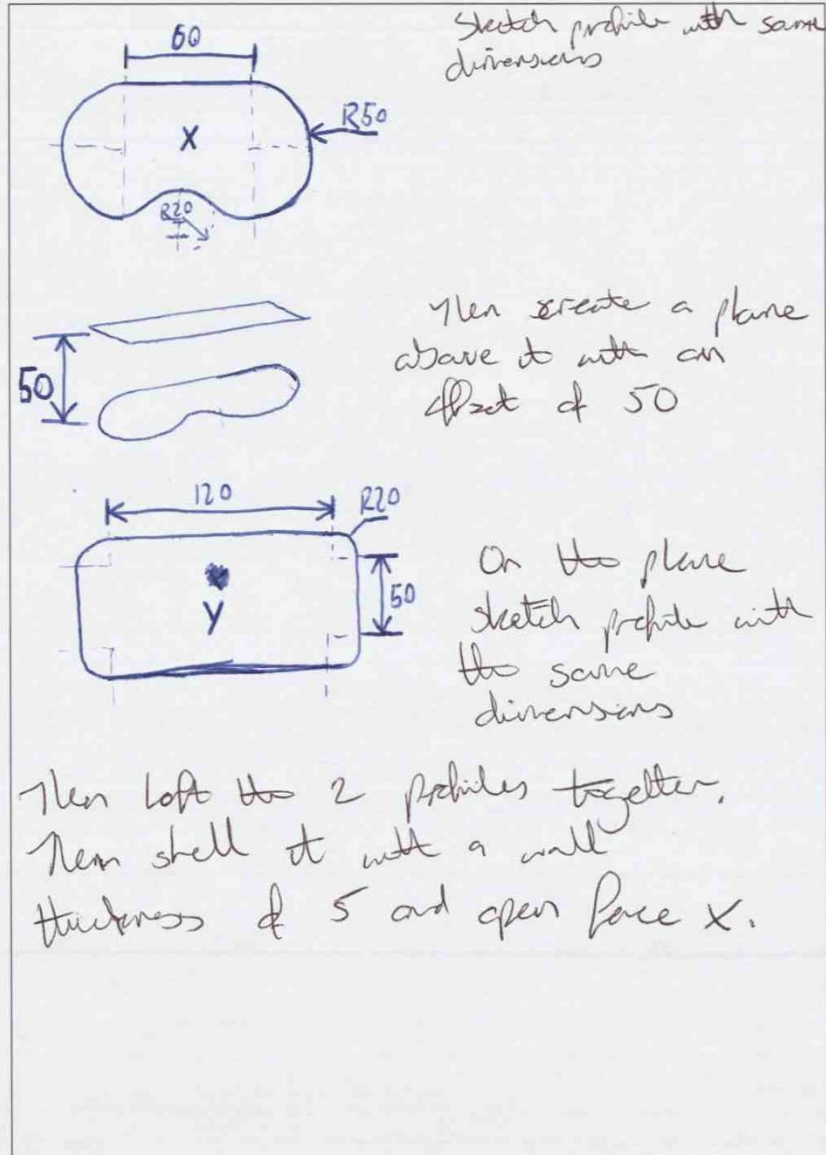
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- (d) (i) Describe the 3D CAD modelling techniques used to create stage 1 of the VR headset component, shown in the drawings opposite.

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



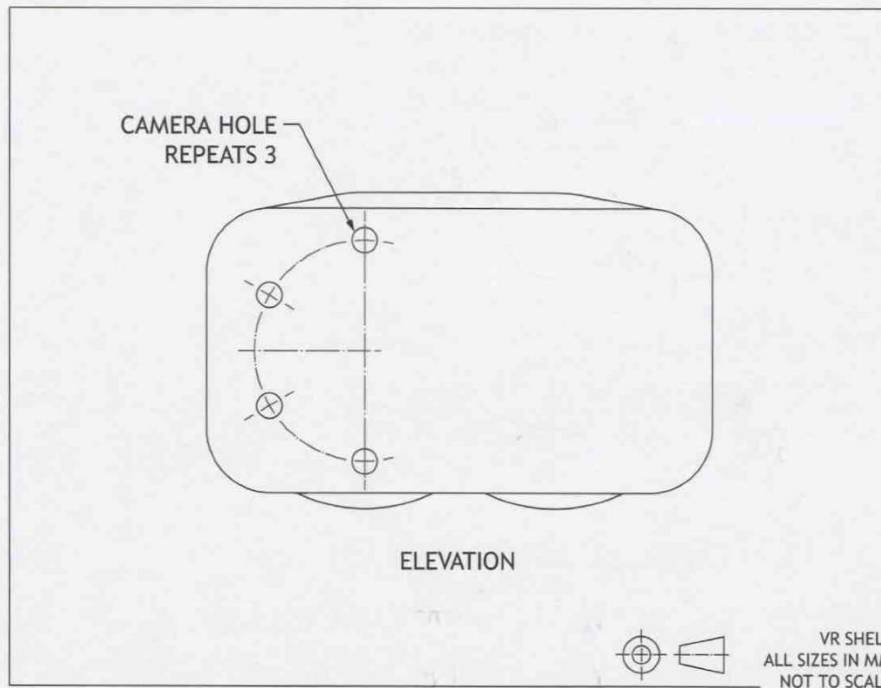
[Turn over]

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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.

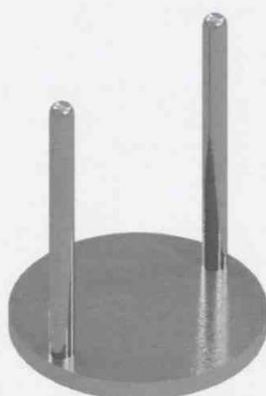
1

Radial array

2. (continued)

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

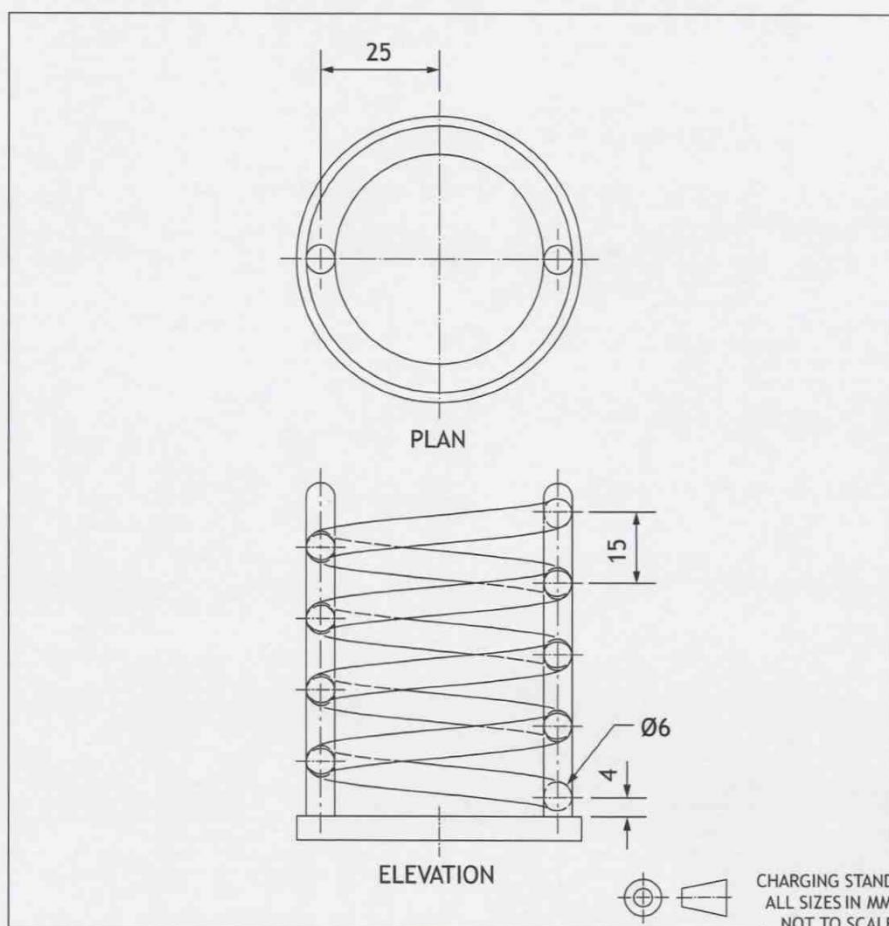
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Stage 1



Stage 2



2. (continued)

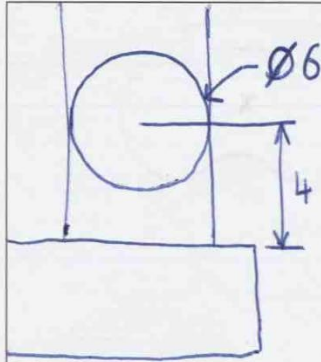
- (e) Describe the 3D CAD modelling techniques used to add the feature in **Stage 2** of the prototype controller charging stand, shown opposite.

You must reference the dimensions in the drawing.

You may use sketches to support your answer.

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3



Draw a circle with the same diameter and positioning on the pole on the right. Then coil it up with a pitch of 15 and a diameter of 25 with

↳ rotation.

[Turn over

2. (continued)

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

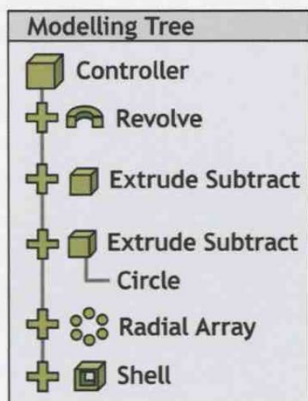
- (f) (i) State a suitable file format the CAD technicians can use to share models. 1

Step file

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

It has a small file size

An error was made during the controller modelling process.



result with
modelling error

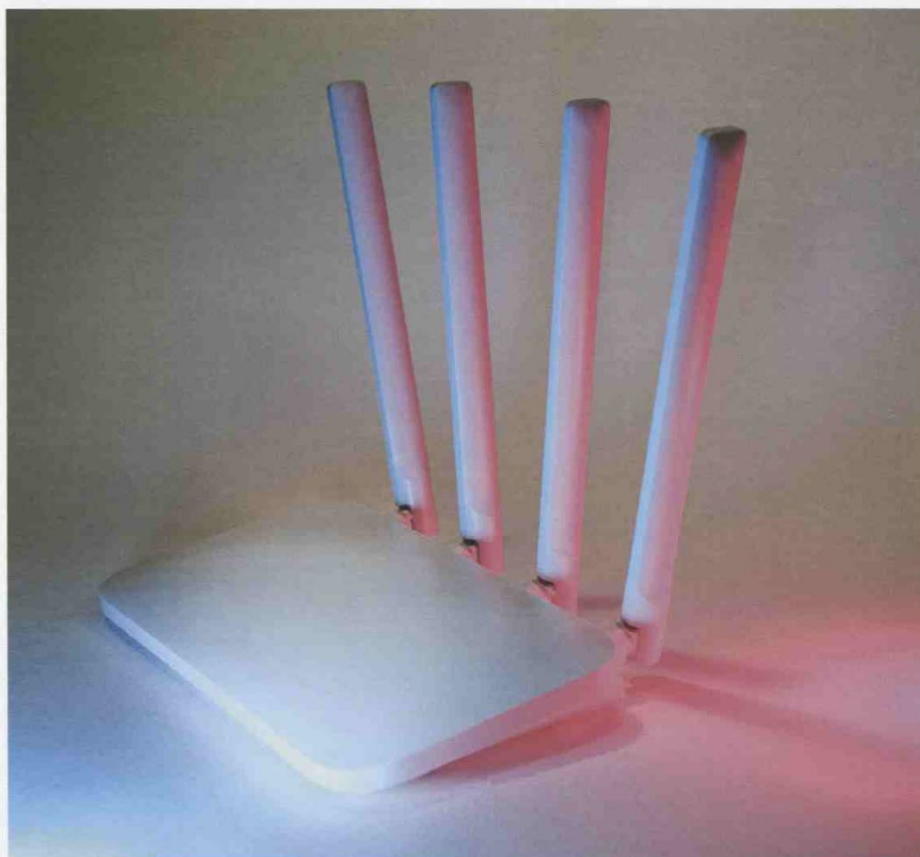


expected
end result

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

Move the shell command to before the
extrude subtract circle command.

3. A wireless router is being developed using CAD.



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3. (continued)

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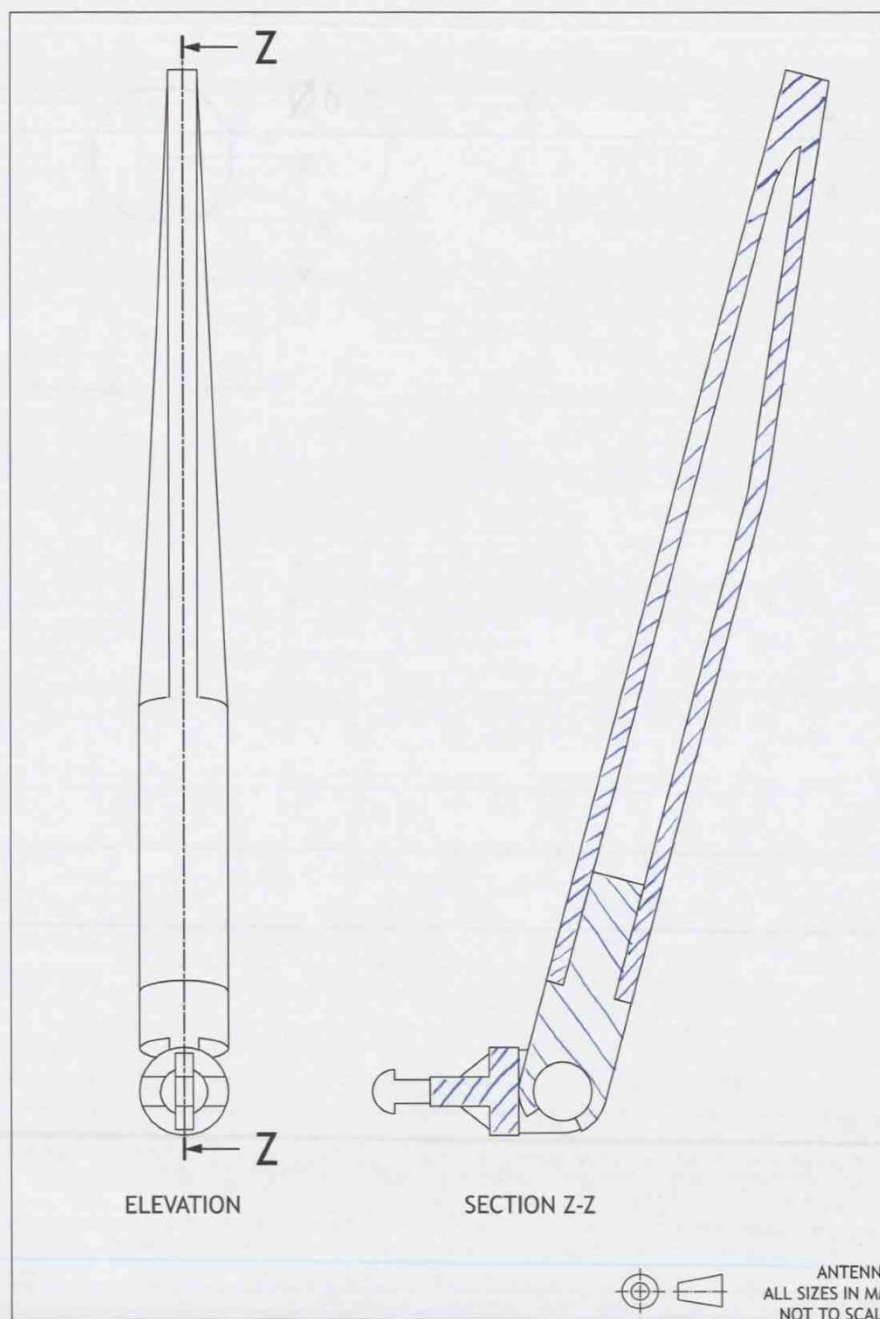
An incomplete sectional view of the wireless router antenna is shown below.

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

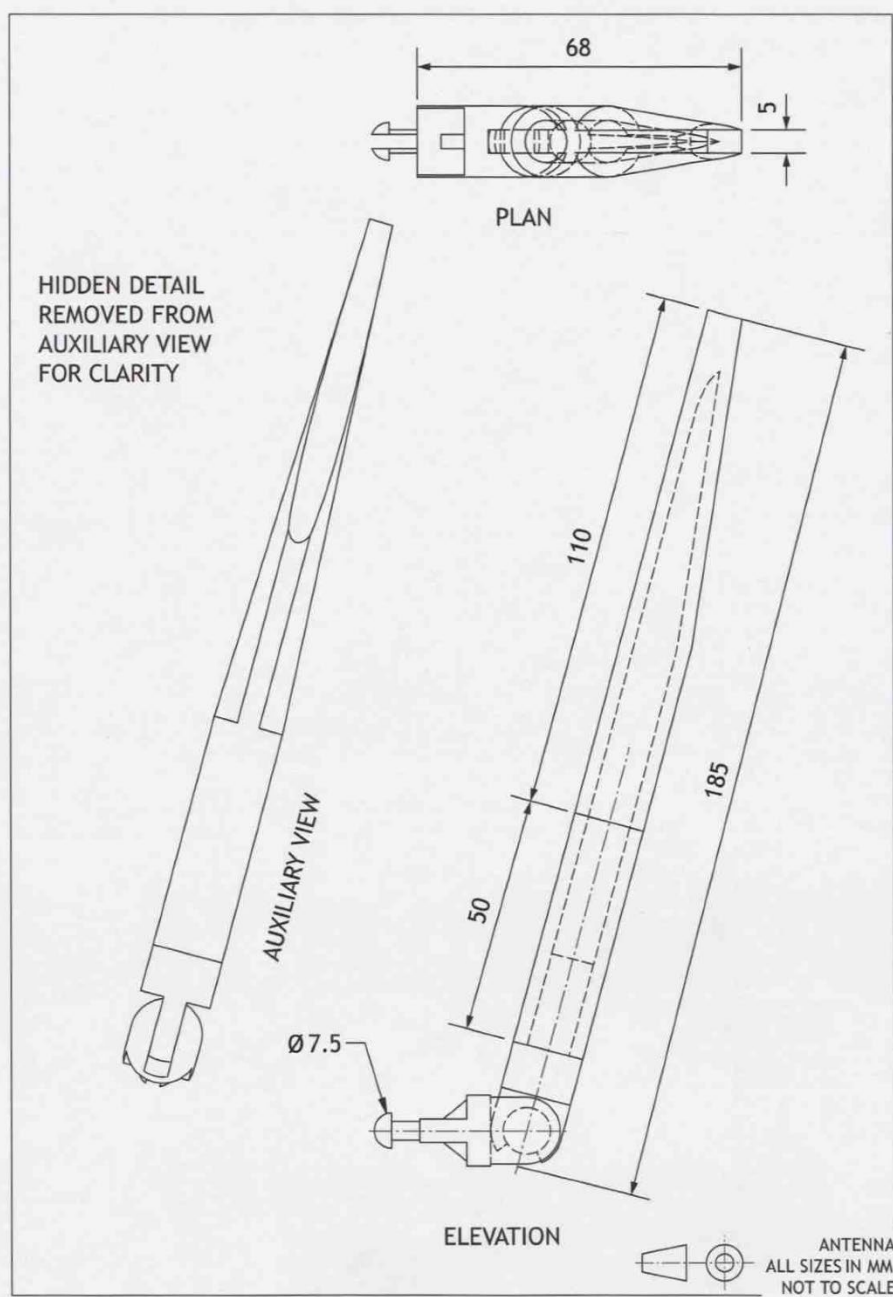
Use the information provided on **supplementary sheet 4**.

4

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



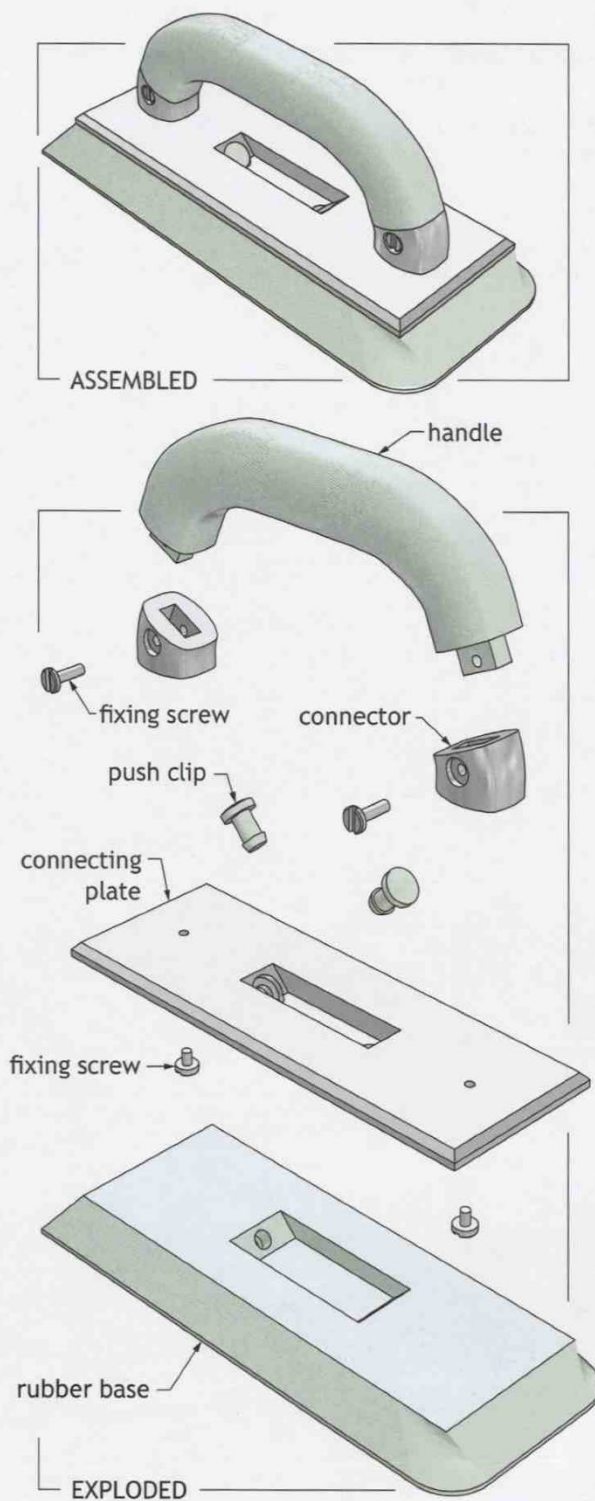
3. (continued)

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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 ϕ 7.5 should be a R 7.5		
2 There is no centre line for the dip's circle		
3 There are no centre axis lines for the semi circle on the dip.		
[Turn over		

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

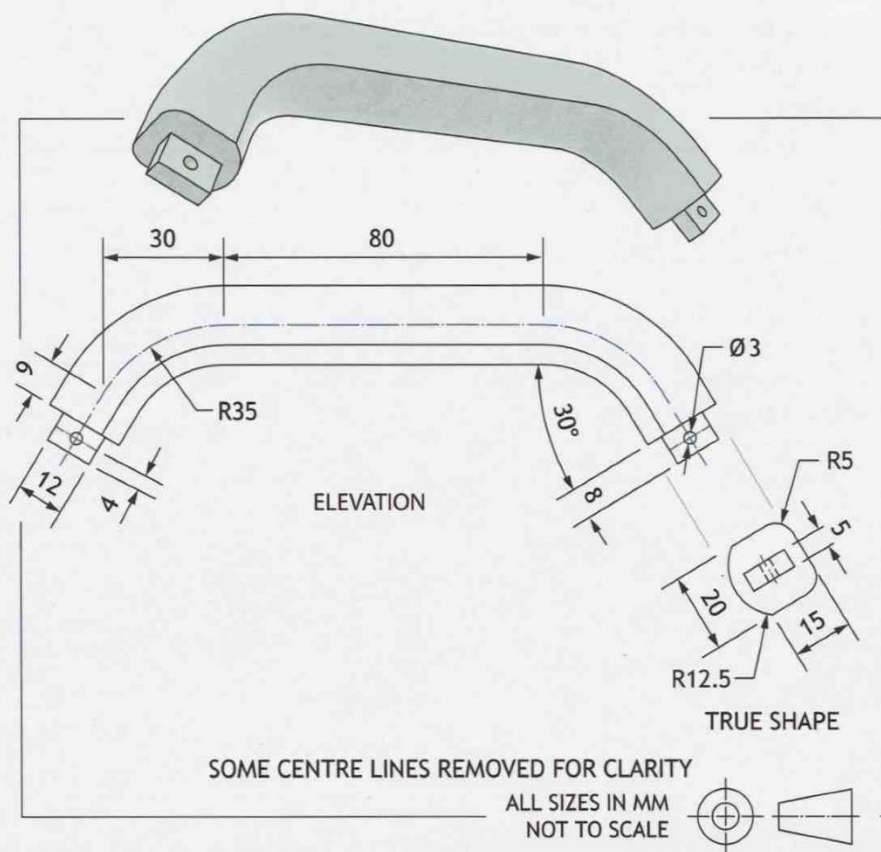
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4. (continued)			
(a)	(i) Describe two examples of good practice in the exploded view.	2	
	None of the parts are overlapping each other. It is easy to see what parts go where		
	(ii) Describe, giving two examples, the purpose of an exploded view.	2	
	To show how different parts fit together and to show how all the parts together and how many there are.		
		[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.

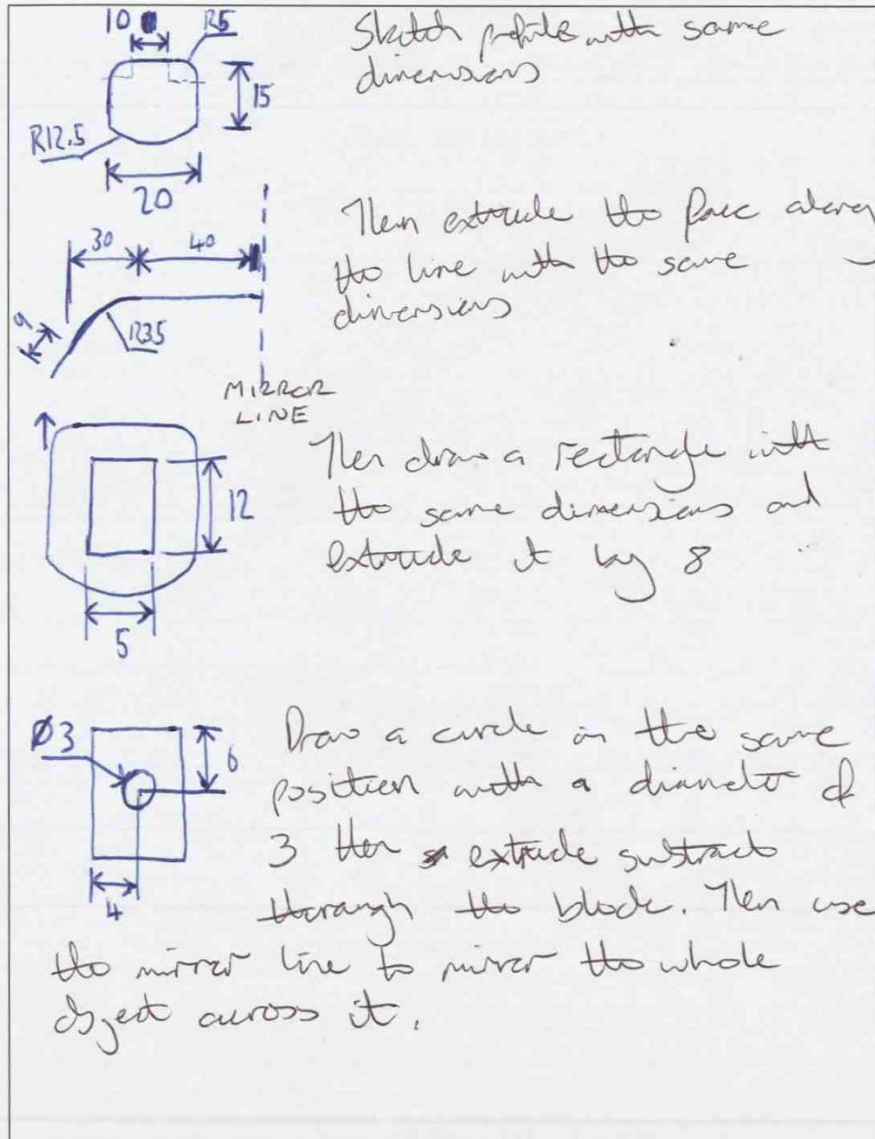
You must refer to the dimensions given in the drawing.

You may use sketches to support your answer.

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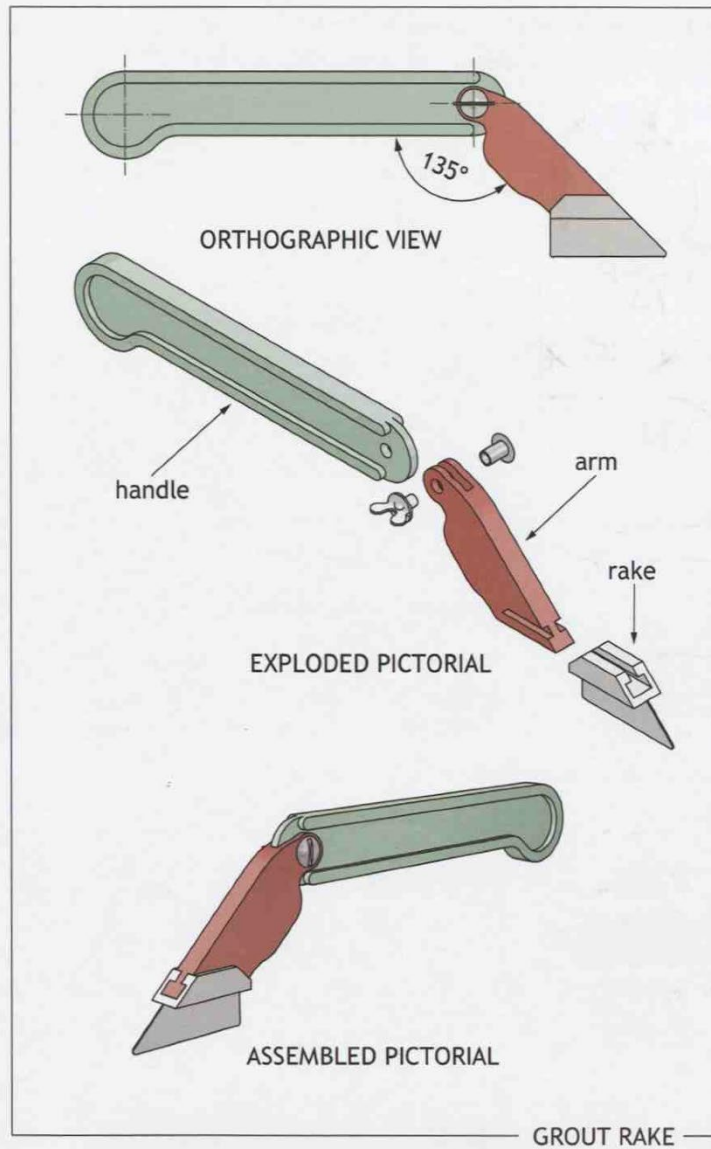
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[Turn over]

4. (continued)

Graphics for a grout rake are shown below.



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4. (continued)

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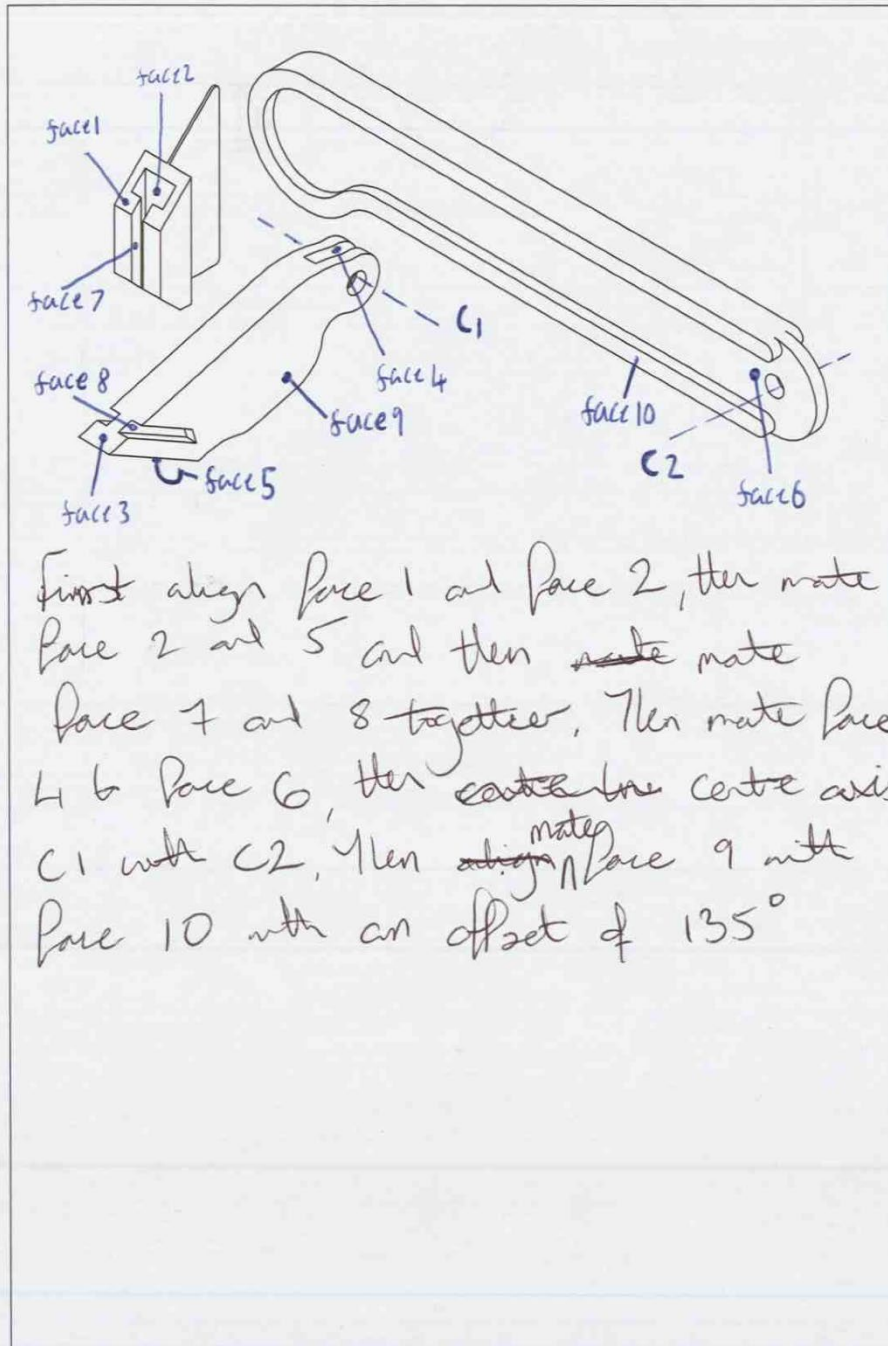
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- (c) Describe, using 3D CAD terms, how to constrain the three grout rake components, shown below.

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.

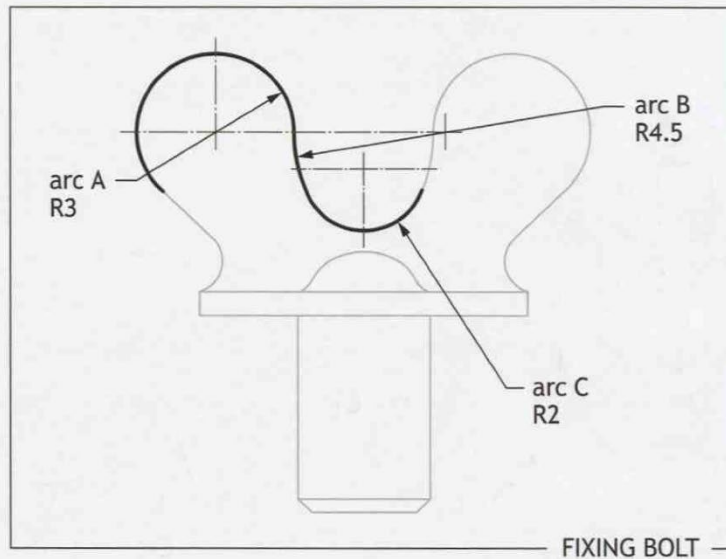
4



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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

4.5

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

1

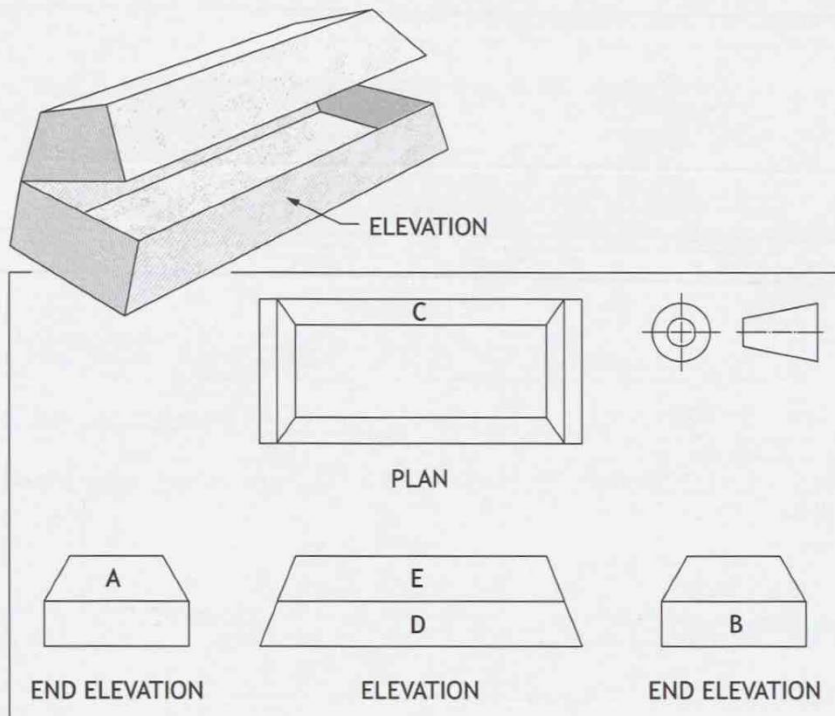
2.5

4. (continued)

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

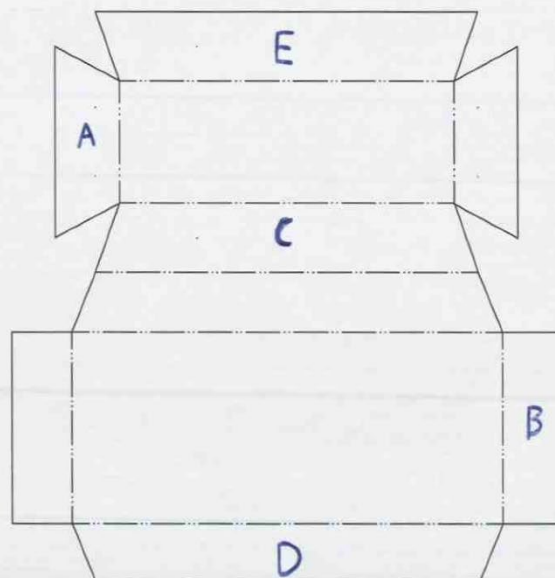


- (e) Identify the position of faces A–E on the surface development below.

The surface development is shown from the outside.

(An additional graphic, if required, can be found on page 37.)

5



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MARGIN**4. (continued)**

Illustrations of the grout rake are shown below.

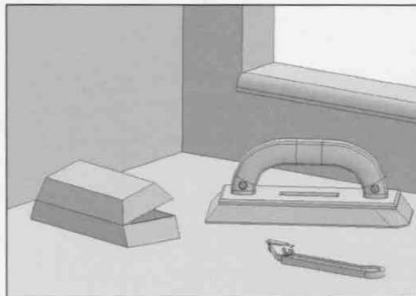


Illustration 1



Illustration 2

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

2

Materials and colours
lighting and shadow

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

2

Gives the items a sense of scale
shows where they would be found
and used

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

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.

(iii)

- 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 2228891
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)	Header	1	
(iii)	Drop Cap	1	
(iv)	Cutter	1	
(v)	Crop marks	1	
(b) State the two different types of text justification labelled on the flyer shown opposite.		2	
Text 1	Justified		
Text 2	Central		
(c) Describe the benefit of using the desktop publishing technique bleed in the flyer.		1	
Make sure that there is no white outline around 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

Different layers can be edited without having to move other parts.
Layers can be switched around to show different parts more clearly.

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

Images can be stock images would have water marks meaning the image might be less clear. The right angle and composition can be found much easier.

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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

What direction the company is facing.
The size of the building compared
to cars.
The amount of trees on their land.
The number of entries to the area

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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 W.C.

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

2

Symbols can be used again so they
don't have to be created more
than once.

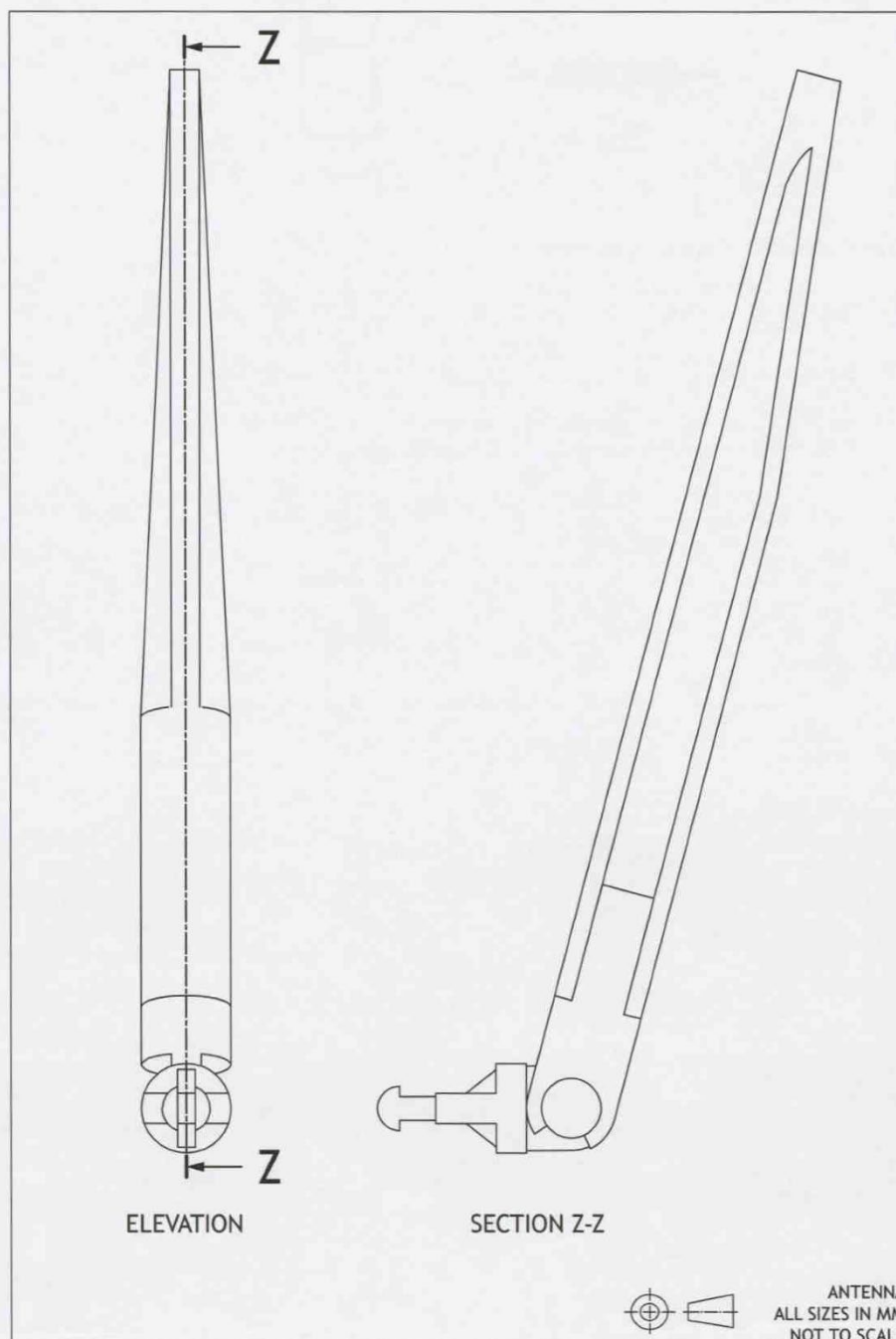
All the symbols would be exactly
the same.

[END OF QUESTION PAPER]

ADDITIONAL SPACE FOR ANSWERS

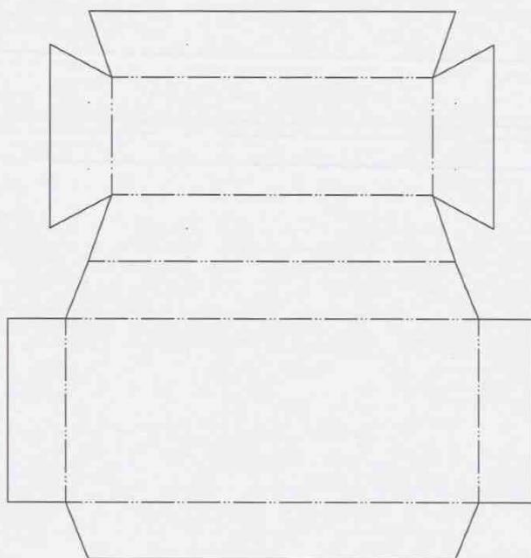
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Additional graphics for question 3 (a)



ADDITIONAL SPACE FOR ANSWERS

Additional graphic for question 4 (e)



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ADDITIONAL SPACE FOR ANSWERS

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1b) Every sub heading in the "behind the series" section.