

Candidate 8 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 red text on the word "Independent" contrasts with the black text making it stand out.
• The reverse text "Cinemazy" contrast against the black making it eye catching for the viewers.

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

2

• The repeated use of the camera lense on page five creates rhythm as it draws the viewers eye down the page to the upcoming films.
• Answer at additional space.

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1. (continued)

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

2

- The high value of the white background on page one creates emphasis on the text.
- The ^{low} high value of the repeated red lines create balance through the leaflet.

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

2

- The transparency used in the red diagonal lines creates depth, and gives the leaflet a sense of 3D.
- The gradual transparency at the left side of the leaflet draws the viewer's eye down to the link at the bottom.

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

2

- The images on page 1 are aligned, which makes the page look organised and easy to read.
- The text and link are aligned in the bottom left corner which looks organised making the leaflet visually appealing.

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

1

- The large scale of the word "cinemazy" creates emphasis as it stands out from the rest of the poster and makes the title clear.

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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
- One advantage is that when scaling the logo won't lose quality.
 - Another advantage is that vector files are smaller so take up less storage.
- (ii) Describe **two** advantages of cloud storage. 2
- One advantage is that anyone in a business can access a file at the same time.
 - Another advantage is that if systems glitched files are still safe on the cloud.

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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 cropping

Image 2 square cropping

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

2

full
• ~~square~~ cropping helps create focus
on a particular important part of the
image.
• square cropping can make lots of
images the same size creating
alignment.

The graphic designer used placeholder text in the preliminary layouts.

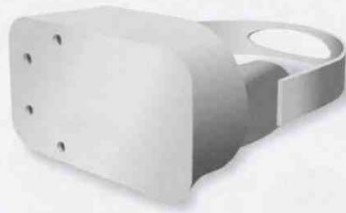
(i) Explain one advantage to the graphic designer of using placeholder text.

1

• One advantage of place holder text
is that it's quicker for the graphic
designer to insert when making
preliminary layouts

[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

• First each part of the headset is made separately as their own files.
• Second each file is brought into an assembly then constrained together.

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 a close up of how two different parts are joined together, making it more clear.

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

1

stepped section

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

1

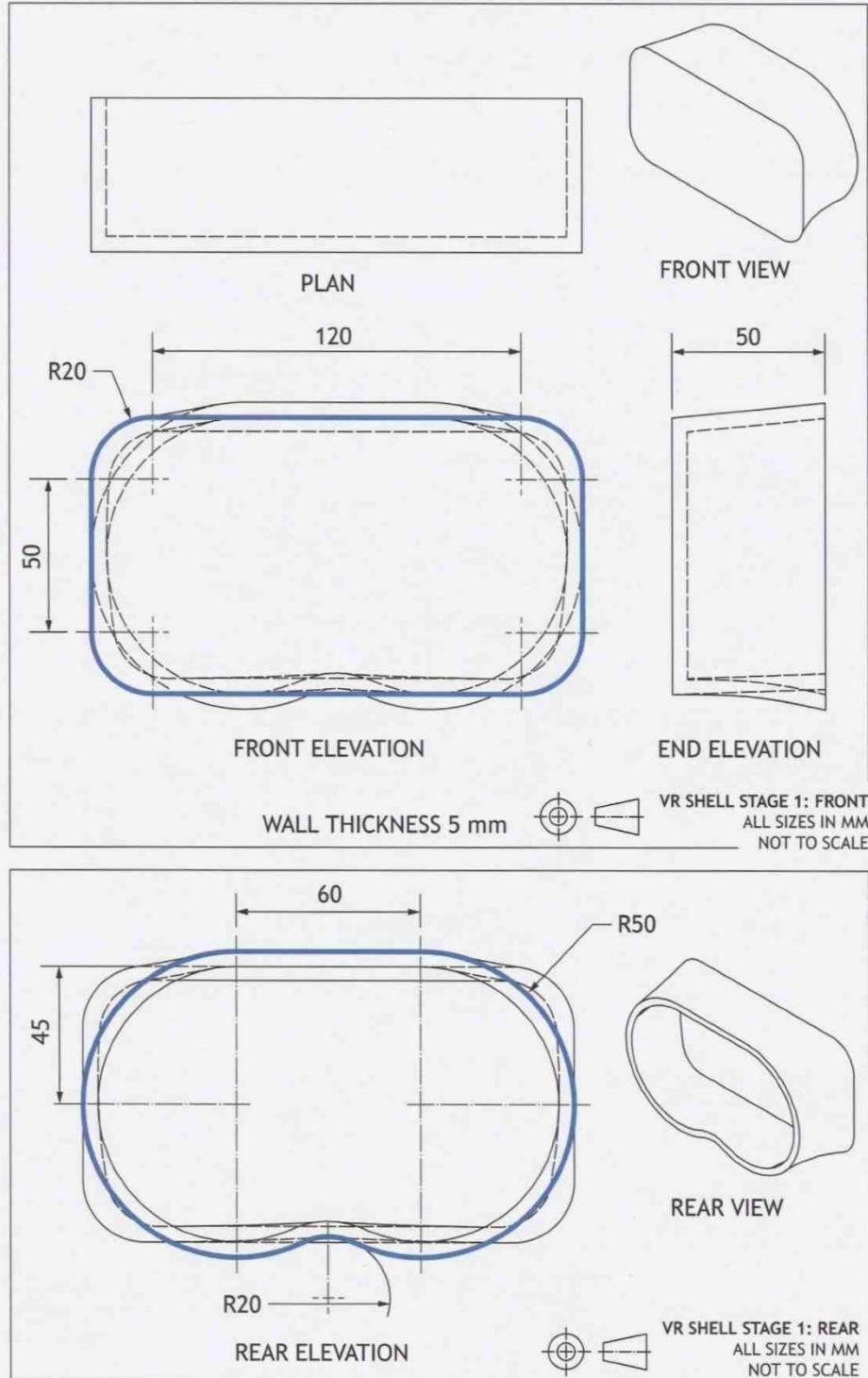
revolved section

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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

1. first sketch the following shape.

2. Then project a plane 50mm from sketch one. And sketch shaded shape.

3. loft sketch one and sketch two together.

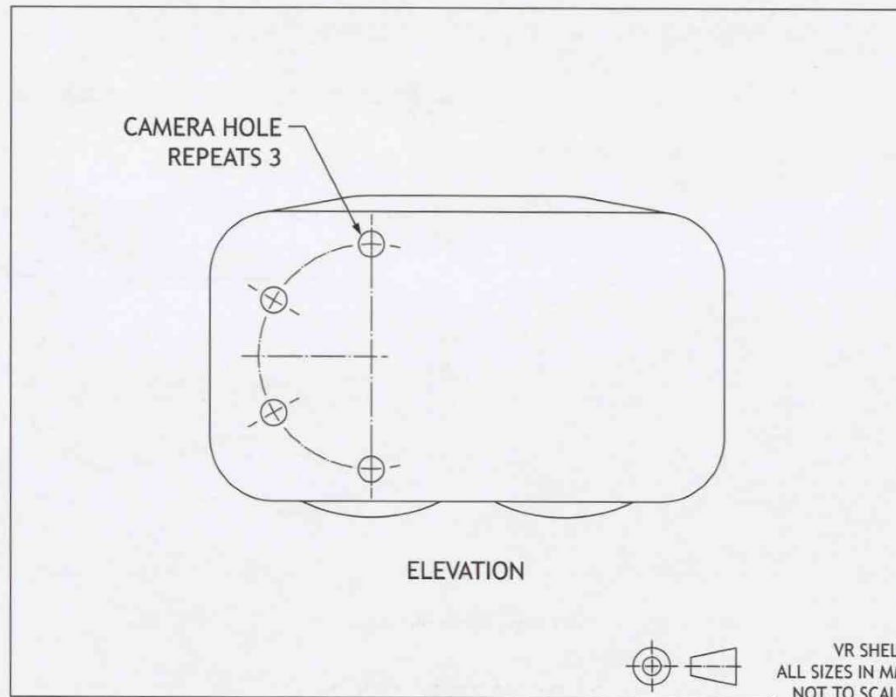
4. shell the headset with a wall thickness of 5mm, and select sketch 2 face to be removed.

[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.

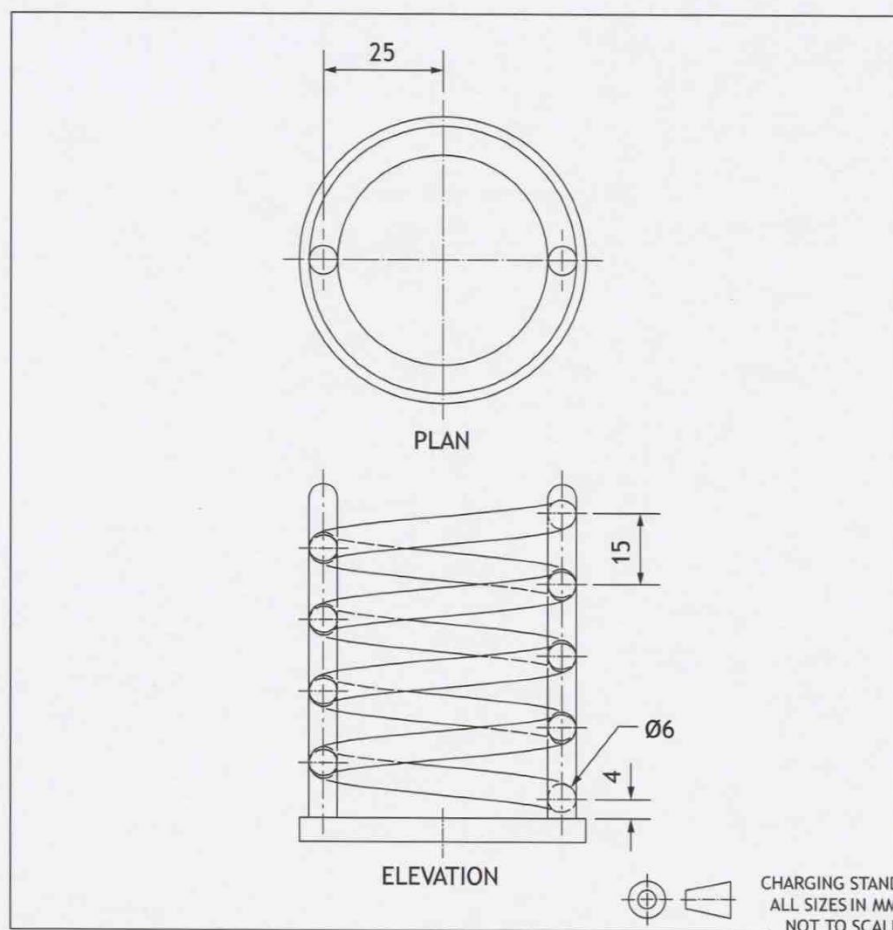
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Stage 1



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

1. start a sketch through the center of the left pole, and sketch the shown circle. shaded

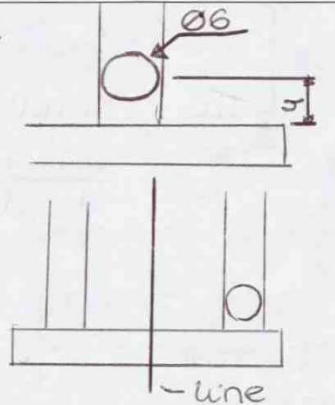
2. Draw a line down the center axis of the stand like shown.

3. select helix tool, then select circles face and then line as center axis.

Revelution = 4

Pitch = 15mm

Then select okay.



[Turn over]

2. (continued)

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

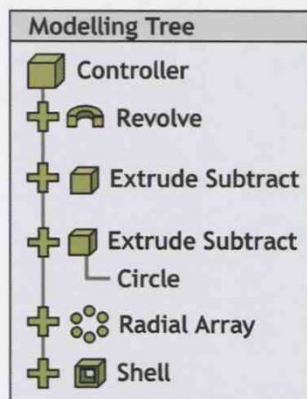
- (f) (i) State a suitable file format the CAD technicians can use to share models. 1

STEP

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

This format is applicable for all CAD softwares, therefore it can be shared and edited easily.

An error was made during the controller modelling process.



result with
modelling error

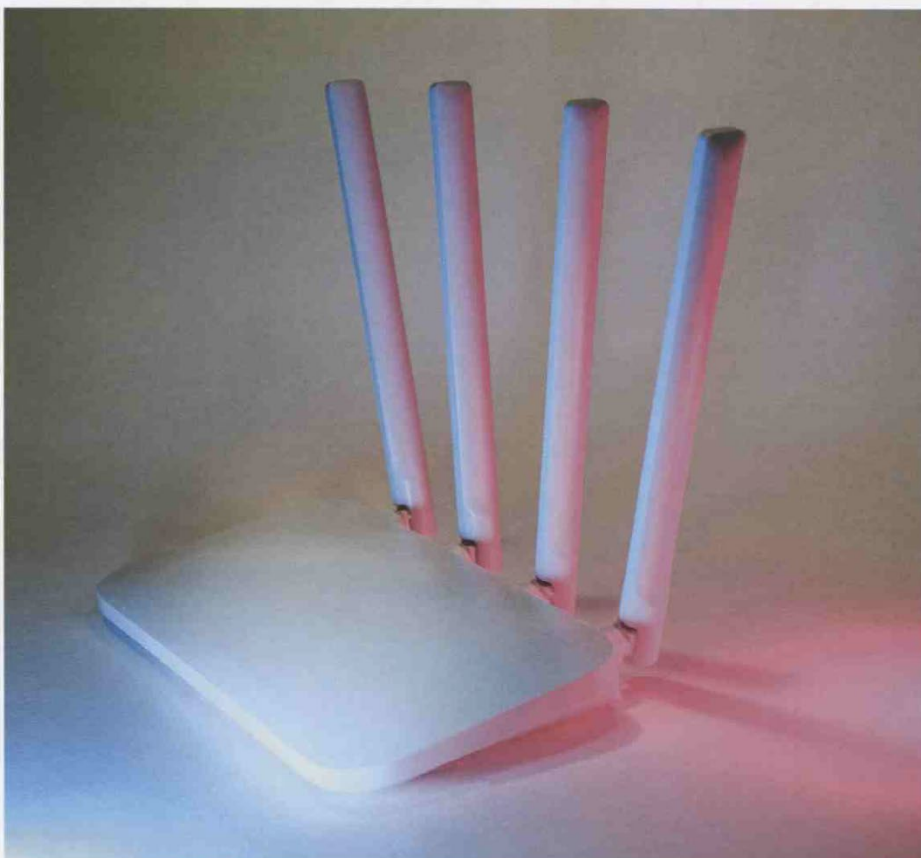


expected
end result

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

shell the product before the radial array.

3. A wireless router is being developed using CAD.



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3. (continued)

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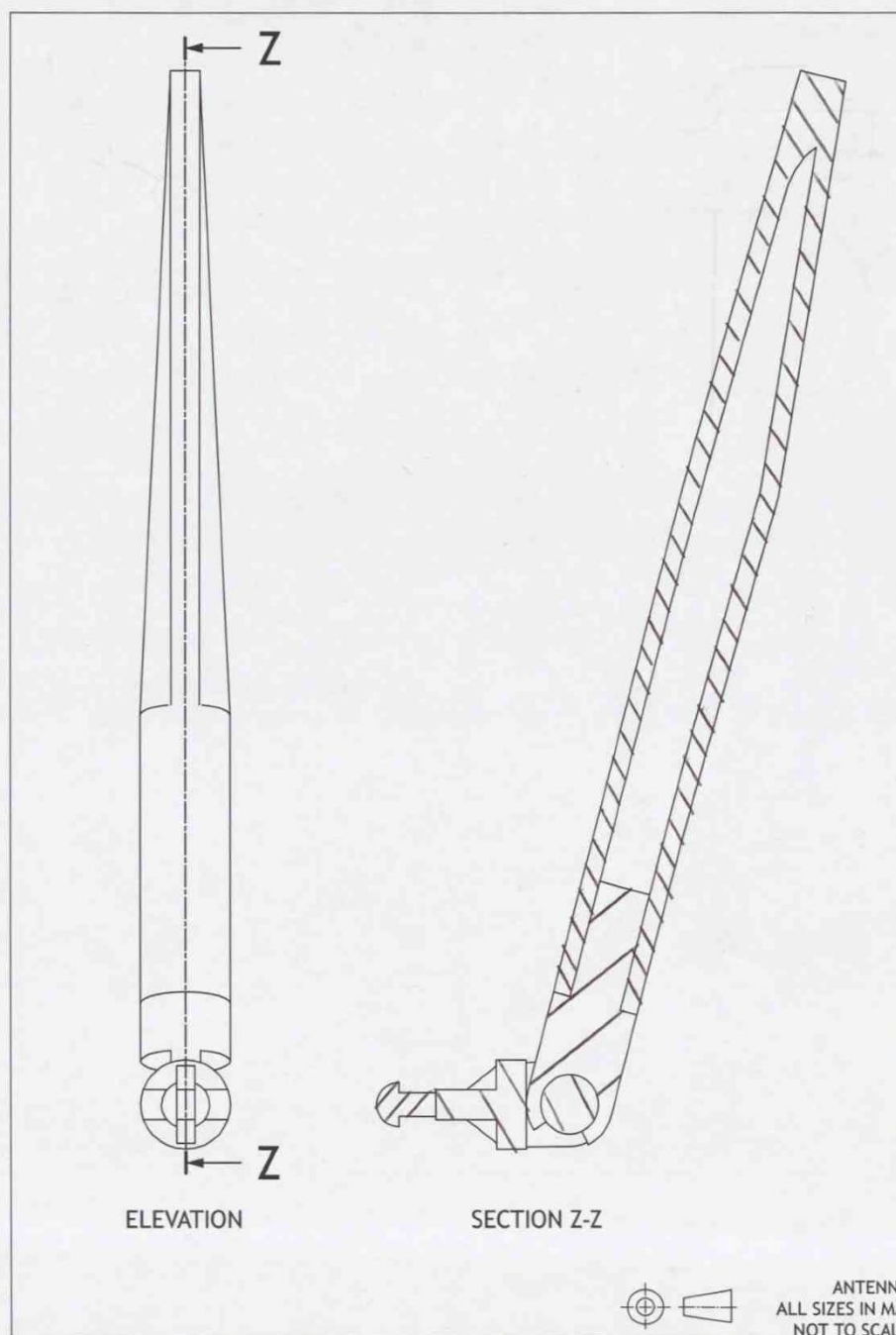
An incomplete sectional view of the wireless router antenna is shown below.

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

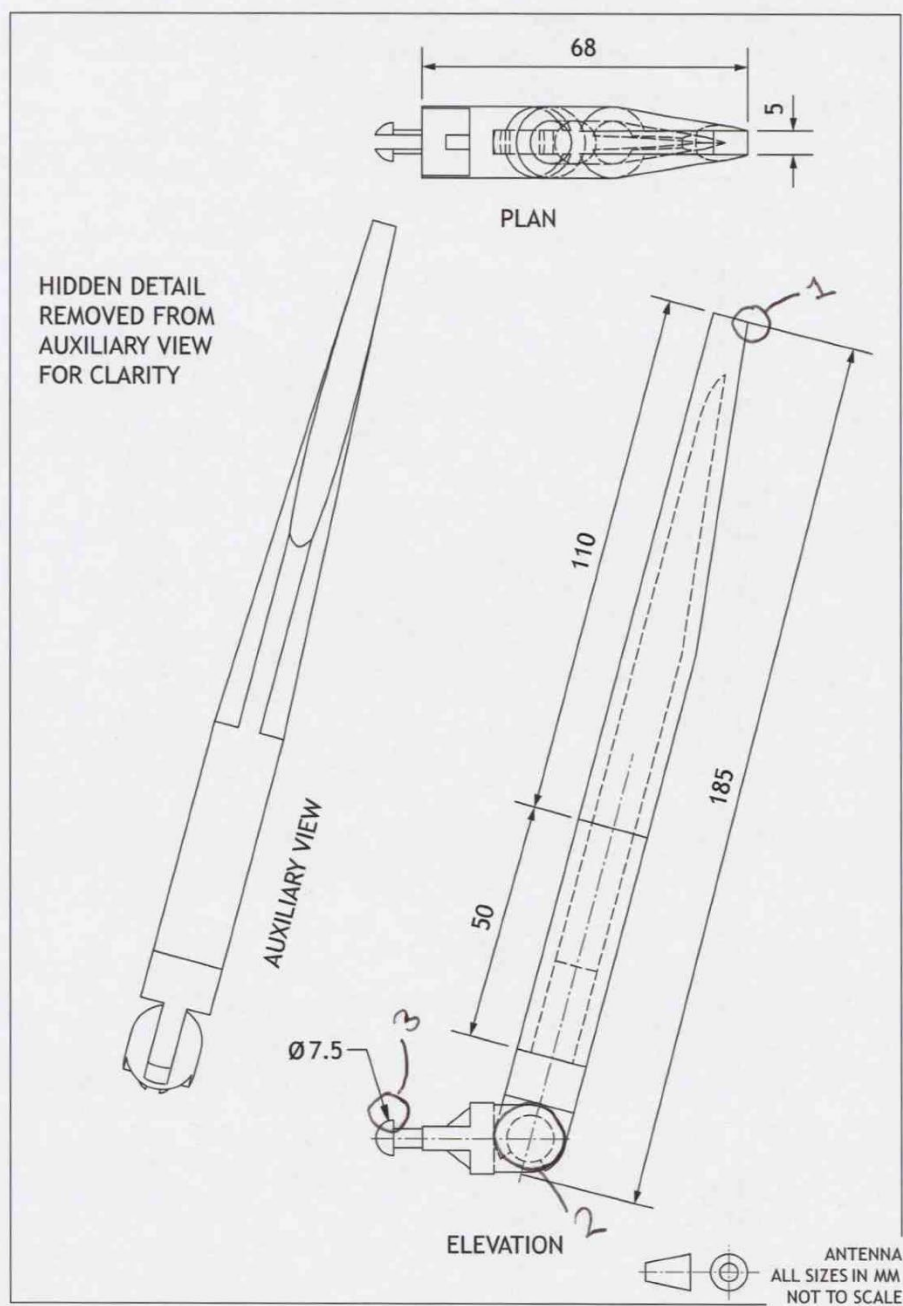
Use the information provided on **supplementary sheet 4**.

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

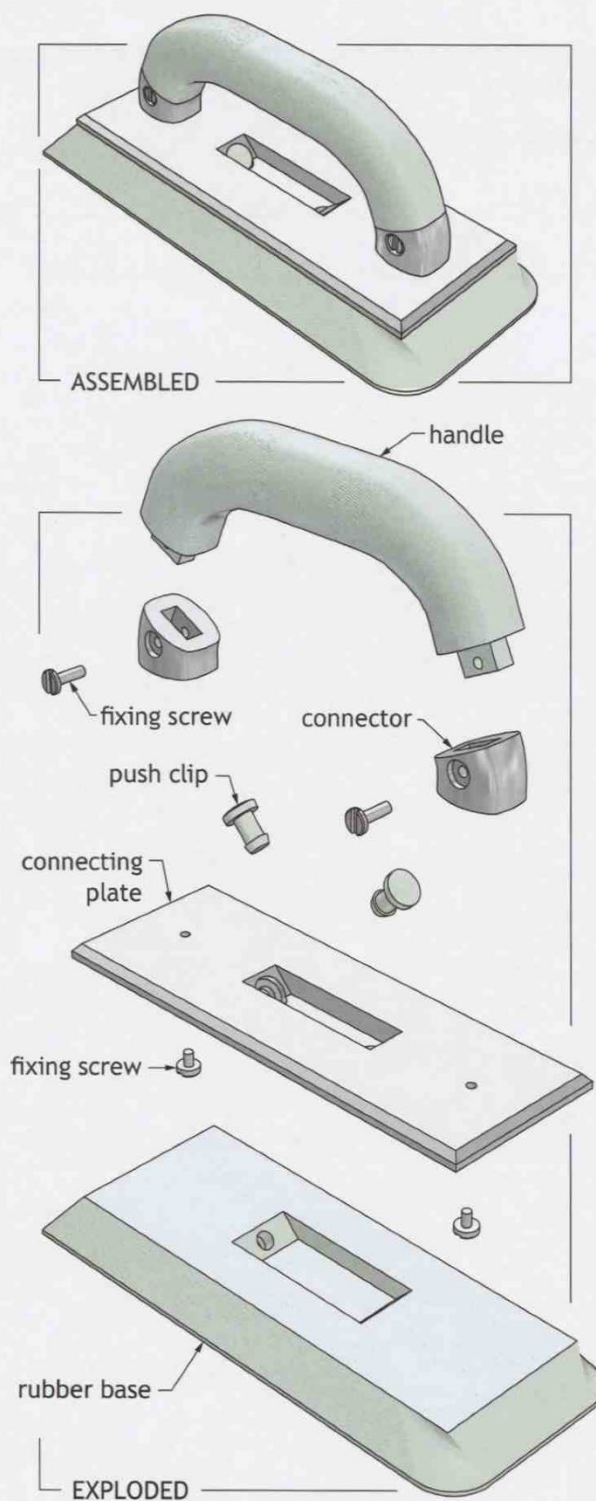
- 1 the dimension lines are touching the part.
- 2 circle doesn't have full center lines
- 3 Arrowhead is touching the part.

[Turn over]

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

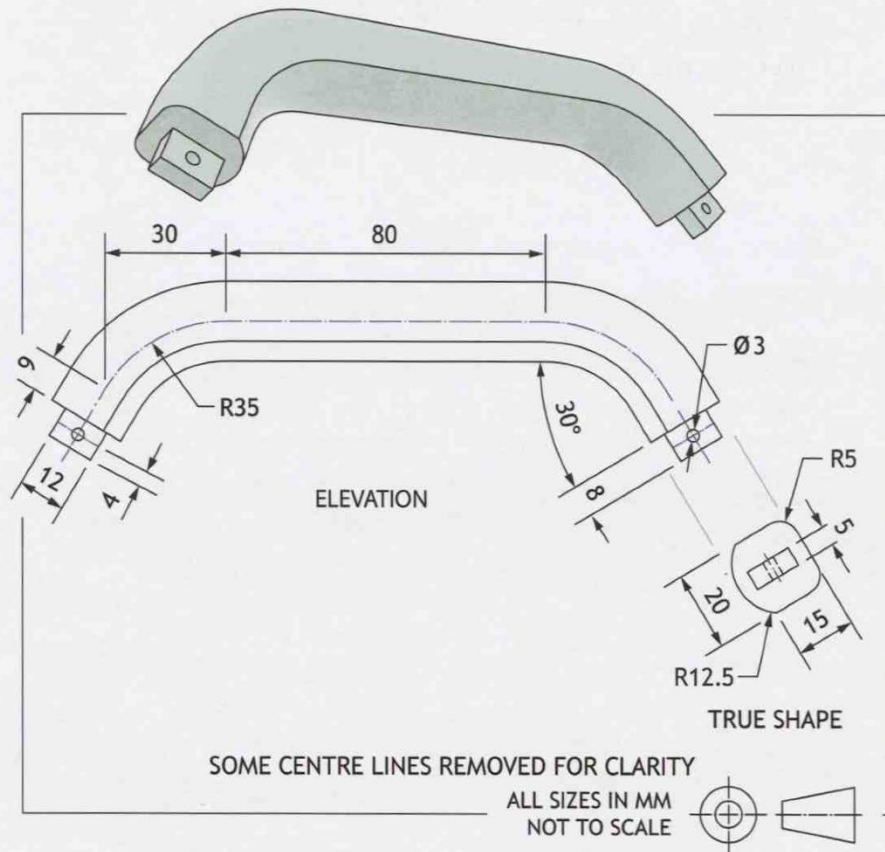
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4. (continued)			
(a)	(i) Describe two examples of good practice in the exploded view.	2	
	• exploded view should be isometric. • No parts should be touching, or overlapping in the exploded view.		
	(ii) Describe, giving two examples, the purpose of an exploded view.	2	
	• To make it clear how many of each part is needed. • To show where everything joins together.		
[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.

5

1. Sketch the following shape.

2. sketch the line below ~~para~~ perpendicular to the center of sketch 1.

3. extrude along path with sketch one as the face and line 2 as the axis.

4. sketch shaded shape on face of sketch 1. Then extrude by 8mm.

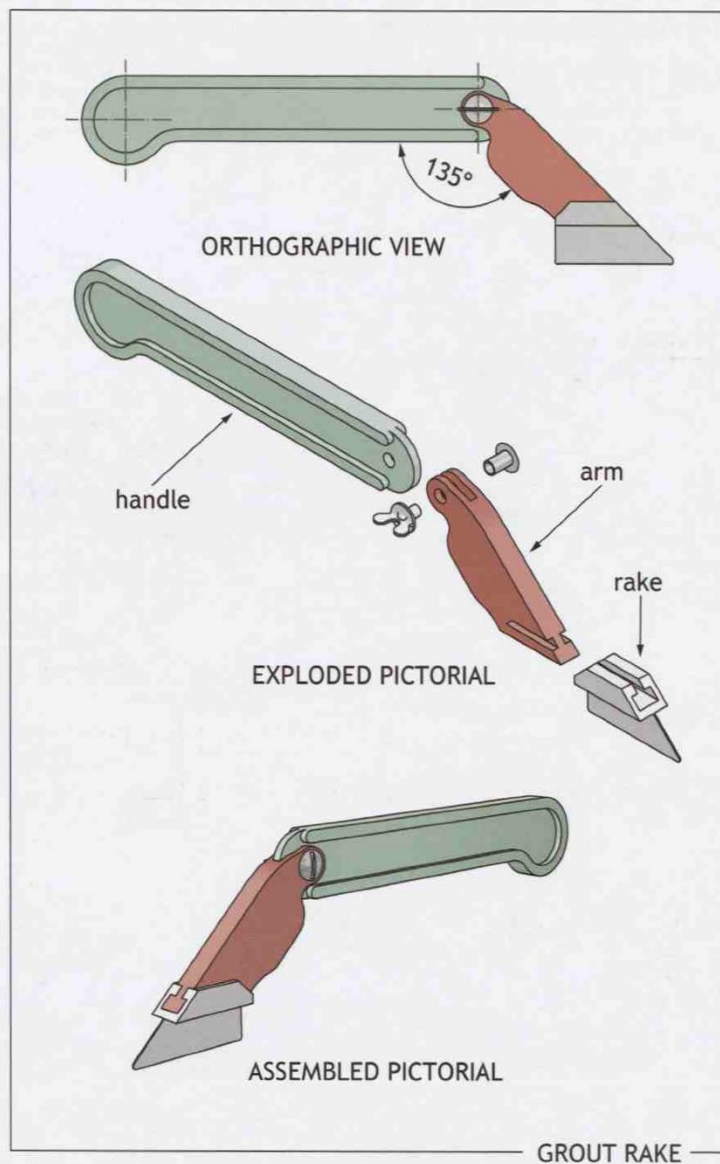
5. sketch shaded circle then extrude subtract by 5mm.

Then repeat steps 4 and 5 on opposite face of handle.

[Turn over]

4. (continued)

Graphics for a grout rake are shown below.



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4. (continued)

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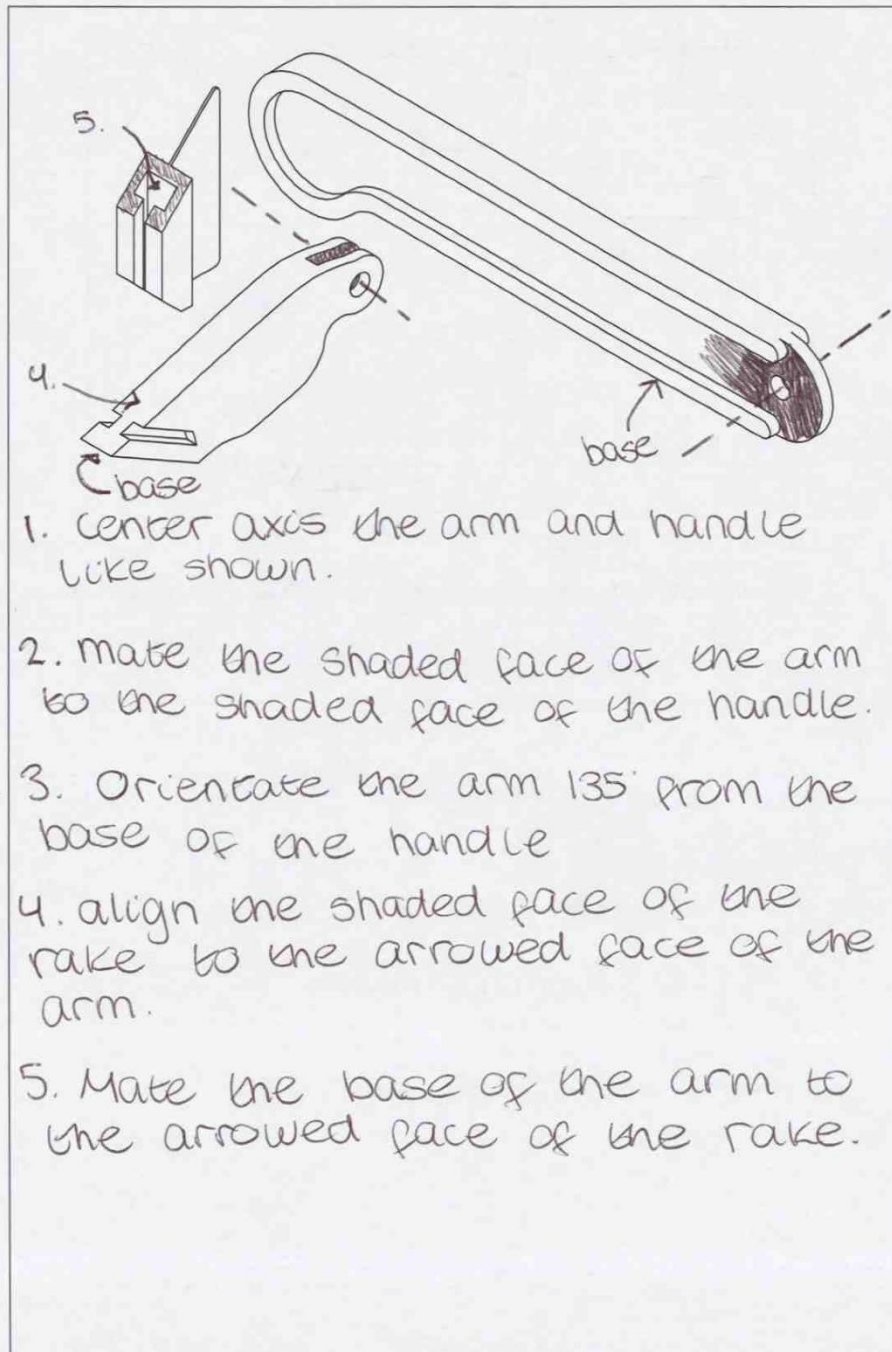
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- (c) Describe, using 3D CAD terms, how to constrain the three grout rake components, shown below.

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

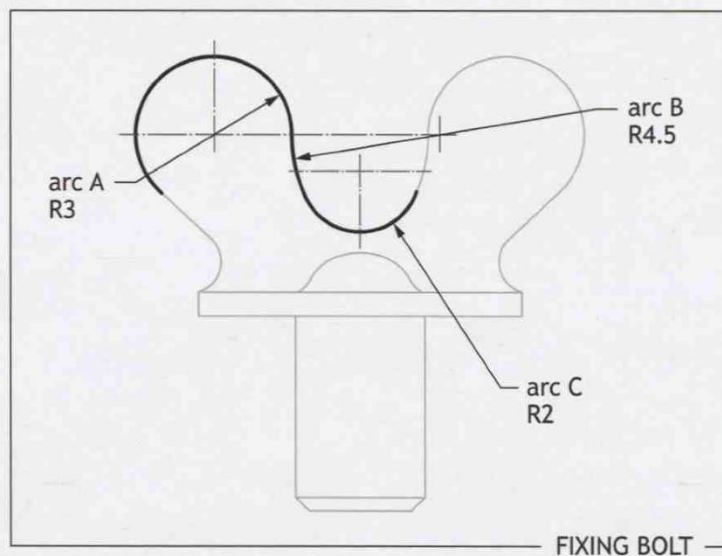
You may annotate the drawings and use sketches to support your answer.

4



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

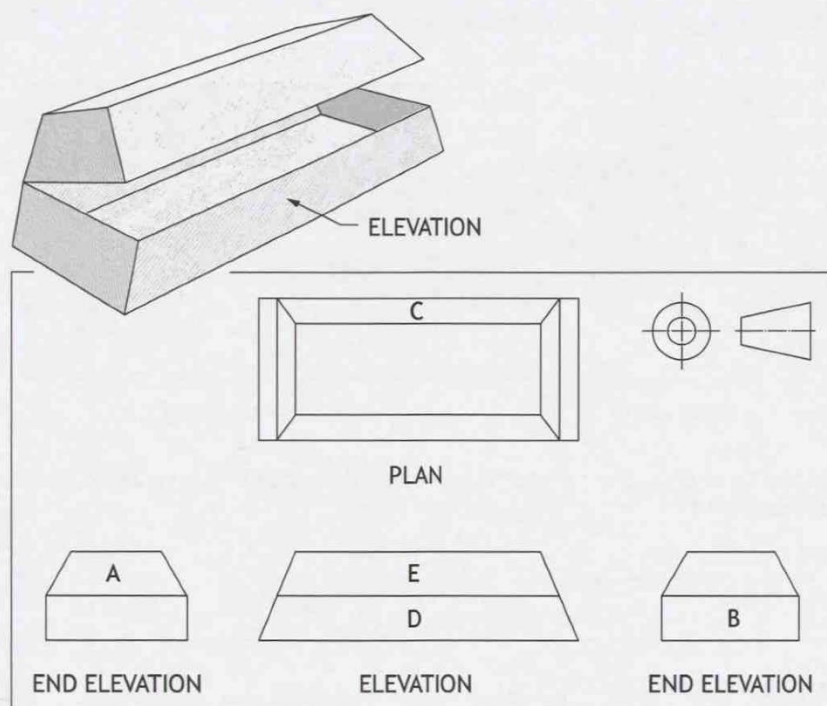
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4. (continued)

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

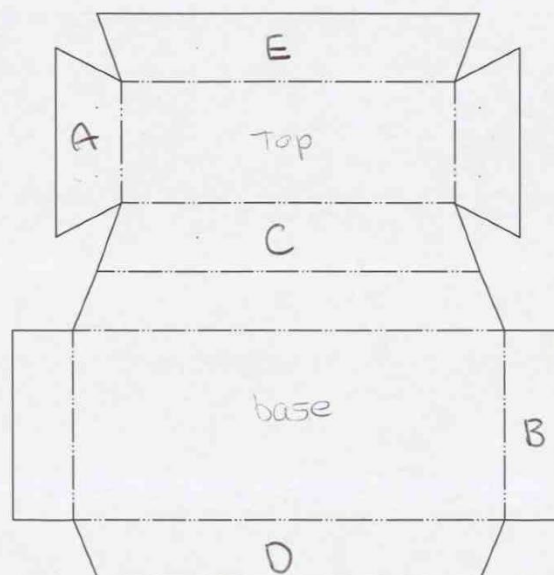


- (e) Identify the position of faces A–E on the surface development below.

The surface development is shown from the outside.

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

5



4. (continued)

Illustrations of the grout rake are shown below.

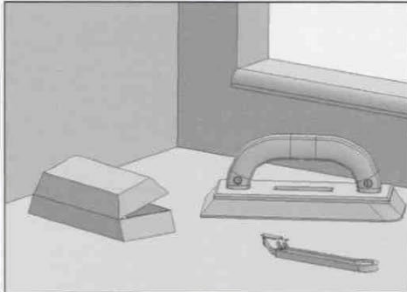


Illustration 1



Illustration 2

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

2

- Materials are applied to make the products look realistic.
- highlights have been added to make the image look 3D.

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

2

- A sited environment can make an illustration look realistic.
- A sited environment shows where the product could be used or located.

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

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(i) →

© SaranteSoaps2025 (ii) →

SCOTLAND'S NUMBER 1 SOAP & CLEANING SUPPLIER

SARANTE SOAPS

OUR PRODUCTS

(iii) → **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.

- 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)	water mark	1	
(iii)	Drop caps	1	
(iv)	gutter lines	1	
(v)	crop mar lines	1	
(b)	State the two different types of text justification labelled on the flyer shown opposite.	2	
Text 1	fully justified		
Text 2	center justification		
(c)	Describe the benefit of using the desktop publishing technique bleed in the flyer.	1	
	So that once printed there will be no border around the poster.		
		[Turn over	

		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)	Drop caps	1	
(iv)	gutter lines	1	
(v)	crop mar lines	1	
(b)	State the two different types of text justification labelled on the flyer shown opposite.	2	
Text 1	fully justified		
Text 2	center justification		
(c)	Describe the benefit of using the desktop publishing technique bleed in the flyer.	1	
	So that once printed there will be no border around the poster.		
		[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 seperately if a change needs made.
- If a mistake is made it dosen't affect 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

- Images can be more precise to what the business wants and needs.
- business dosen't have to pay for images, which saves them 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

- They can easily save or forward the media if they wish to look back on it or notify others about it.
- They can view it whenever or wherever they wish as long as they have a device.

[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

- The symbol at the bottom left shows the direction of north.
- It shows the depot's boundaries.
- It shows where cars can park and how many of them can park there.
- It shows where trees are located on the site.

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

• British Standard symbols can simply be inserted rather than drawn from scratch.

• Symbols only need to be scaled to the floorplan.

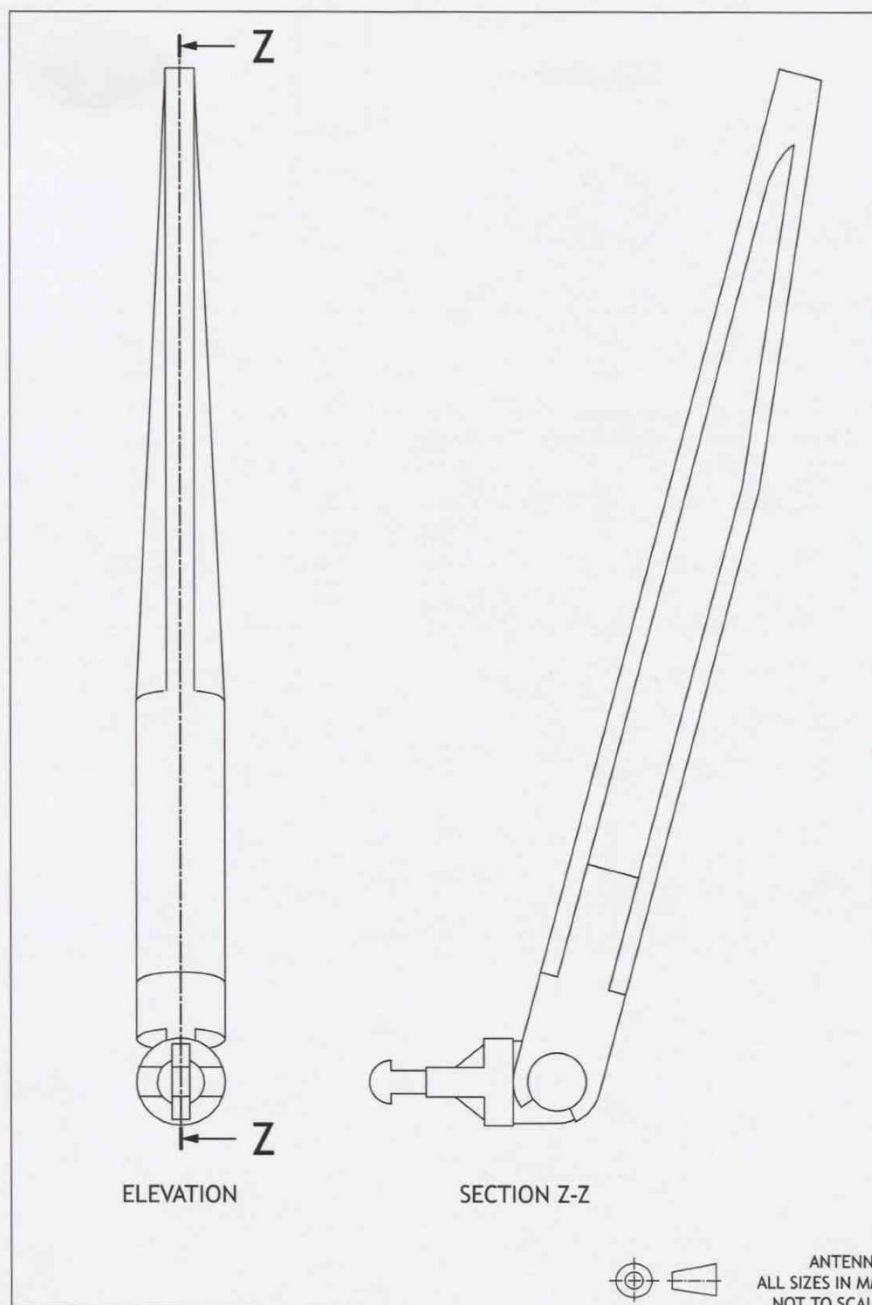
[END OF QUESTION PAPER]

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ADDITIONAL SPACE FOR ANSWERS

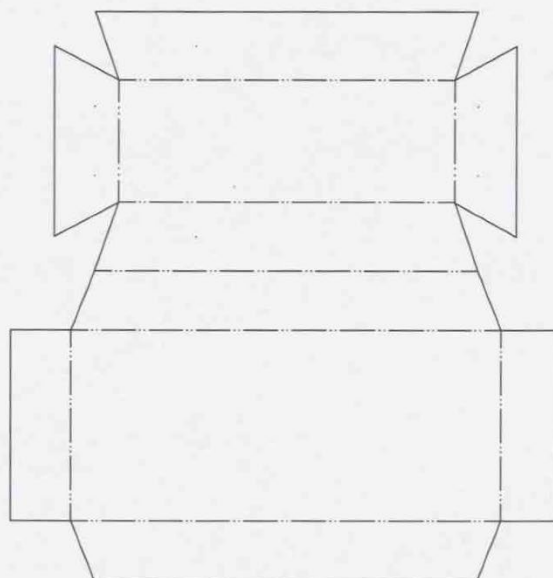
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Additional graphics for question 3 (a)



ADDITIONAL SPACE FOR ANSWERS

Additional graphic for question 4(e)



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ADDITIONAL SPACE FOR ANSWERS

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- 1b. The repeated use of red lines through the entire leaflet creates rhythm, as it makes the ~~the~~ viewer follow the lines and continue to read more of the leaflet.