FOR OFFICIAL USE

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N5

National Qualifications 2026

Mark

# X835/75/01 Graphic Communication

MONDAY, 11 MAY
1:00 PM – 3:00 PM

*X8357501*

**Fill in these boxes and read what is printed below.**

Full name of centre

Town

Forename(s)

Surname

Number of seat

Date of birth
Day Month Year

Scottish candidate number

**Total marks — 80**

Attempt ALL questions.

**You may use a calculator.**

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.

Do not remove any exam materials. You must leave this booklet on your desk; if you do not, you could lose all the marks for this paper.

Qualifications Scotland
Teisteanasan Alba

*X8357501 01*

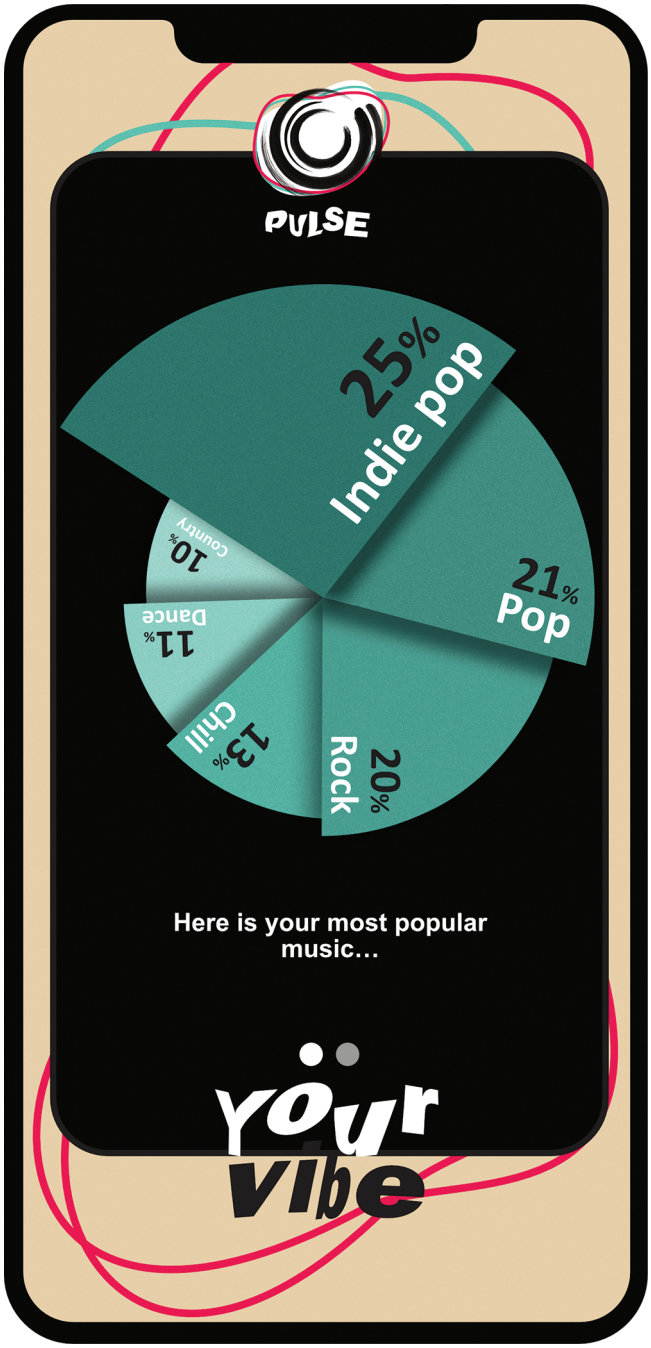

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**Total marks — 80**

**Attempt ALL questions**

**1.** Pulse is a music streaming app for smartphones. A screen from the app is shown below.



**1. (continued)**

(a) The screen shows a user's most popular types of music listened to over a year.

(i) State the name of the chart used. **1**

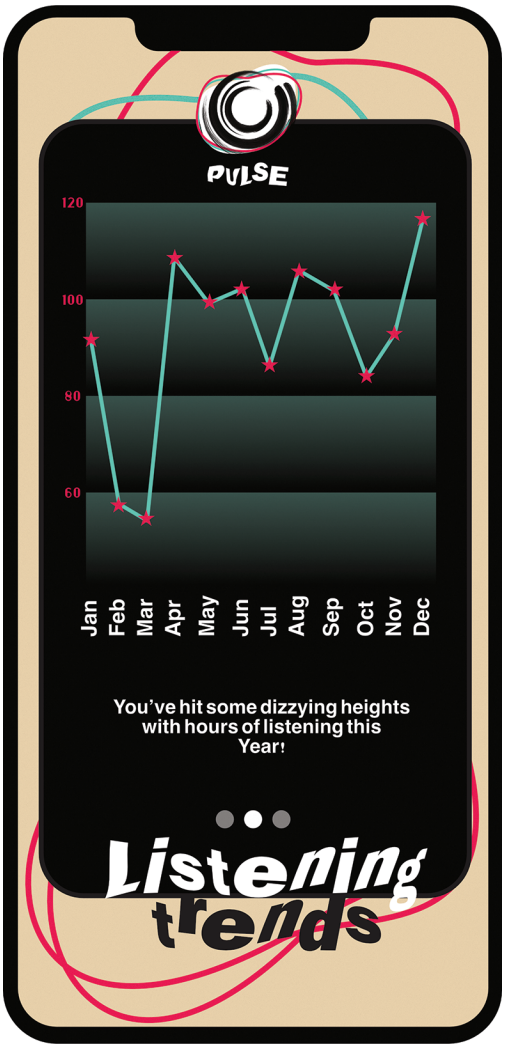
(ii) Explain why this chart is appropriate to communicate this information. **1**

(b) Describe **three** ways the graphic artist has graphically communicated the most popular types of music on the screen. **3**

**[Turn over**

1. **(continued)**

A second screen from the app is shown below.




(c) This graph shows the number of hours a user listened to music each month.

(i) State the name of the graph used above. **1**

(ii) Explain why this graph is appropriate to communicate this information. **1**

**[Turn over for next question**

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1. **(continued)**

A graphic layout showing another screen from the app is shown below.




(d) Describe **two** ways each of the following design elements and principles have been used in the layout:

(i) Depth **2**

1. (d) (continued)

(ii) Unity

2

(iii) Contrast

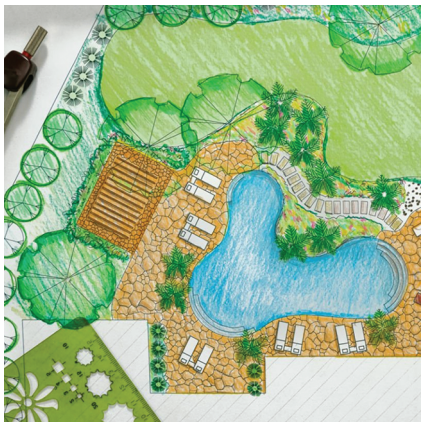
2

(e) Describe **one** way alignment has been used in the layout.

1

**[Turn over**

**2.** A landscape design company has produced graphics for a new garden studio shown below.



preliminary graphic



promotional graphic

(a) (i) Explain the purpose of a promotional graphic. **1**

A digital version of the manual preliminary graphic is created.

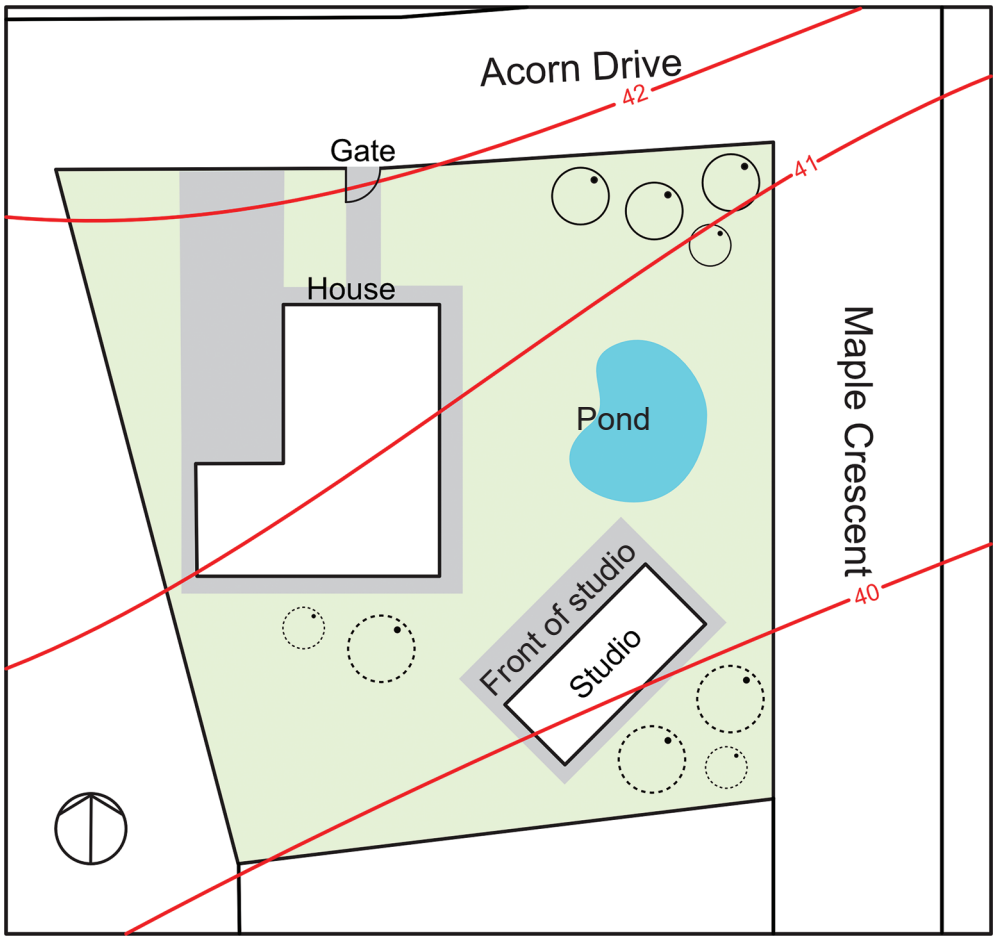
(ii) State the names of **two** input devices that could be used to convert the preliminary graphic into a digital file. **2**

**[Turn over for next question**

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**2. (continued)**

A site plan showing the proposed position of a garden studio is shown below.




(b) State a scale commonly used for a site plan. **1**

(c) Contours are shown in red on the site plan.

Explain the purpose of contours on a site plan. **1**

**2. (continued)**

The front of the garden studio faces the house on the plot.

(d) State the direction the front of the garden studio faces. **1**

(e) State the direction the pond is in relation to the house. **1**

The site plan was produced by a designer who works from home.

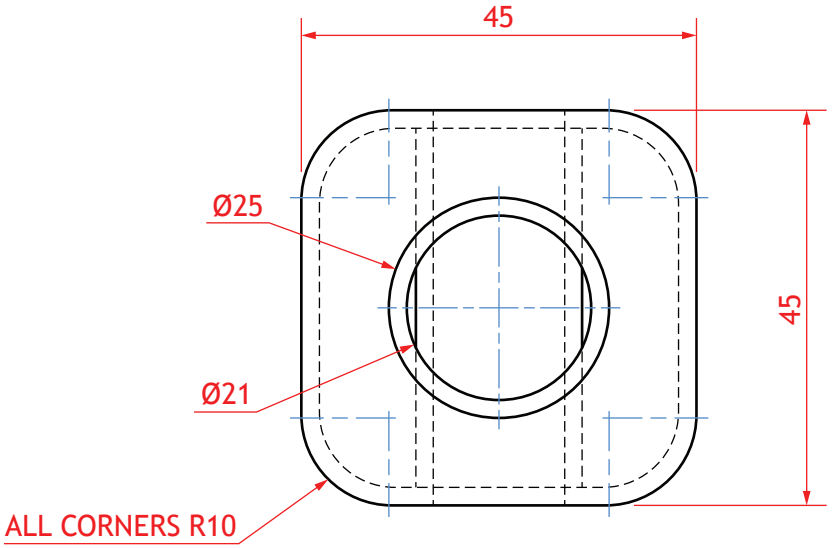
(f) Describe **two** advantages of remote working. **2**

**[Turn over**

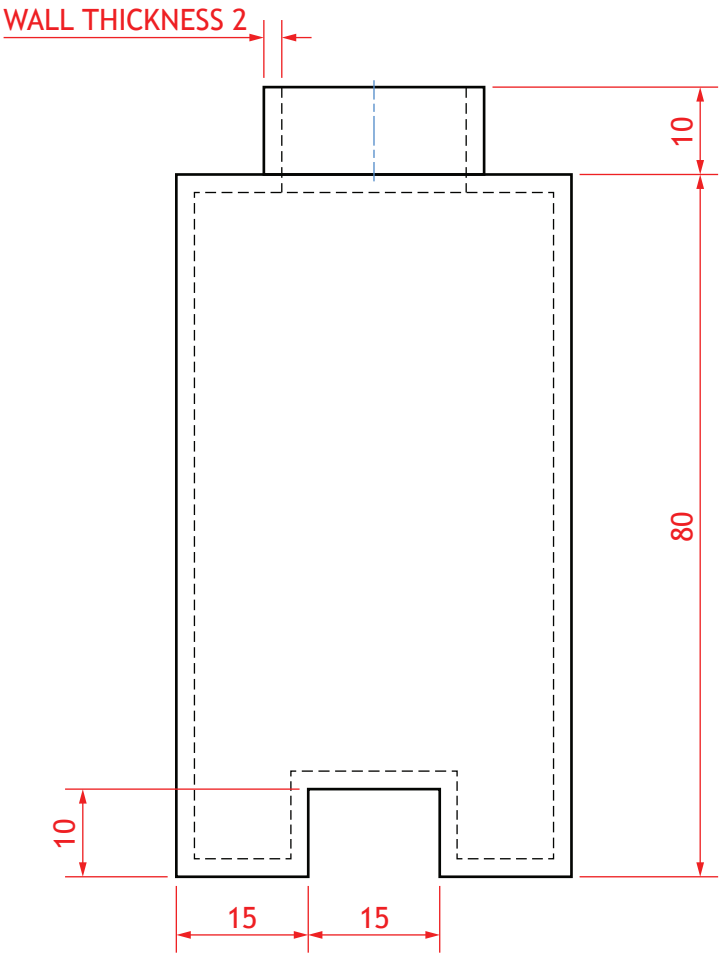
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**3.** A company has created a new drinks bottle for their product line. It has two parts: a body and a lid.

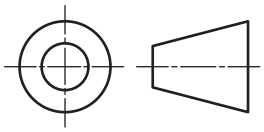
An orthographic drawing of the body is shown below.




PLAN




ELEVATION



**3. (continued)**

(a) Describe, using the correct dimensions and 3D CAD modelling terms, how you would use 3D CAD software to model the body.

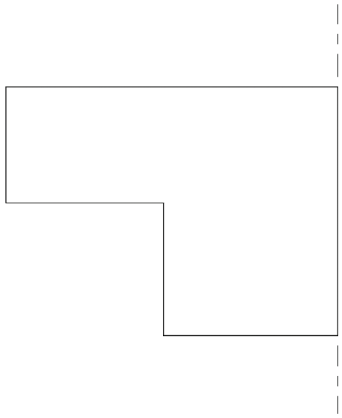
You may use sketches to help support your answer. **6**

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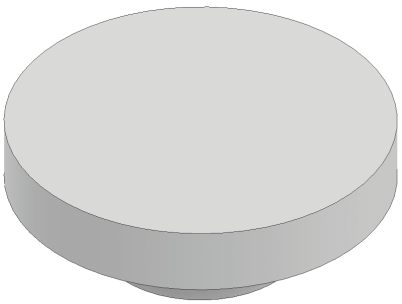
**3. (continued)**

The stages to create the 3D CAD model of the lid are shown below.

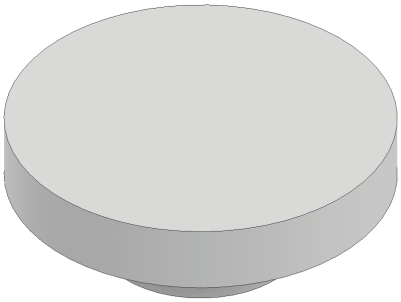
Stage 1



Stage 2



Stage 2



Stage 3



Stage 3



Stage 4



**3. (continued)**

(b) (i) State the name of the 3D CAD command used to go from stage 1 to stage 2. **1**

(ii) State the name of the 3D CAD edit used to go from stage 2 to stage 3. **1**

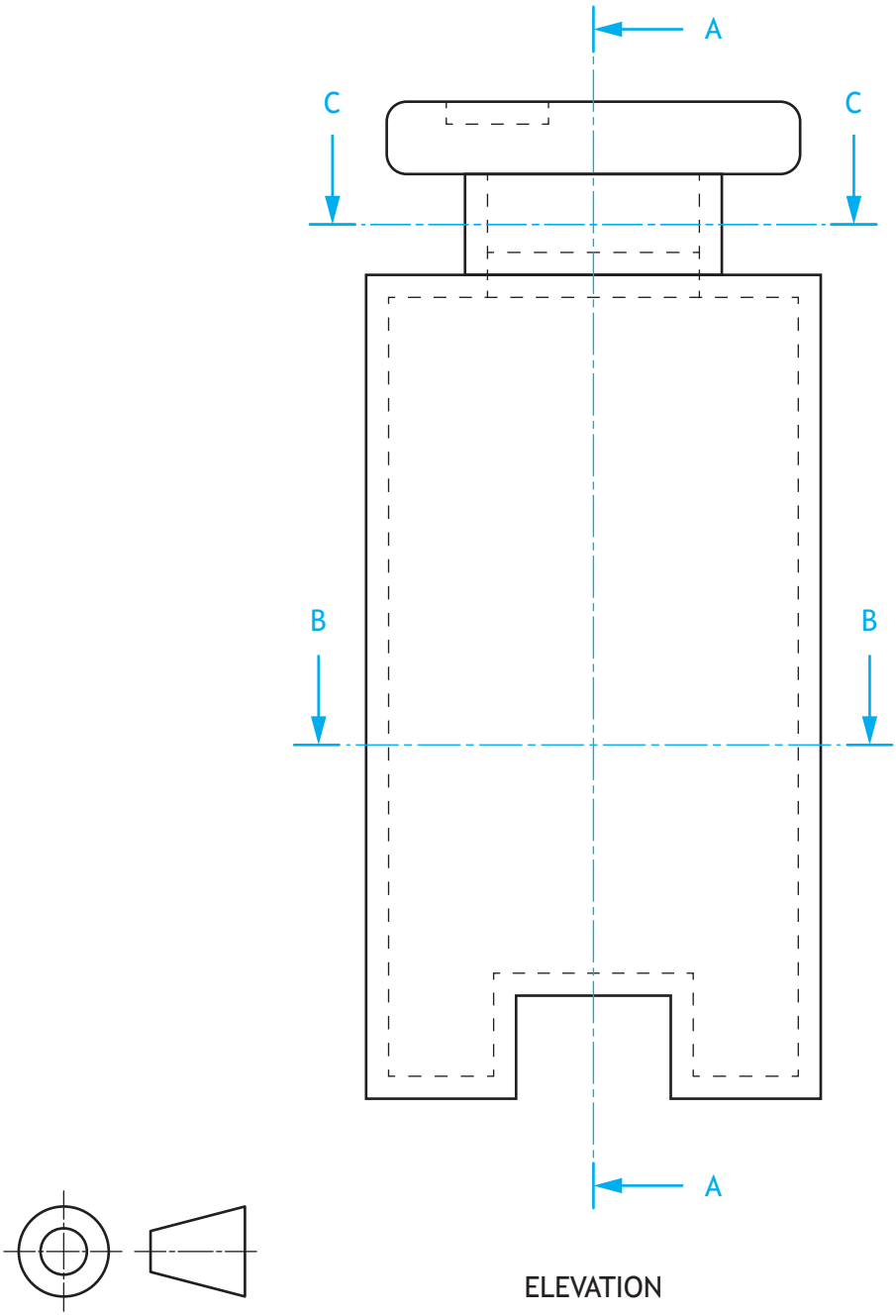
(iii) State the name of the 3D CAD edit used to go from stage 3 to stage 4. **1**

**[Turn over**

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**3. (continued)**

The elevation of the assembled bottle is shown below.




ELEVATION

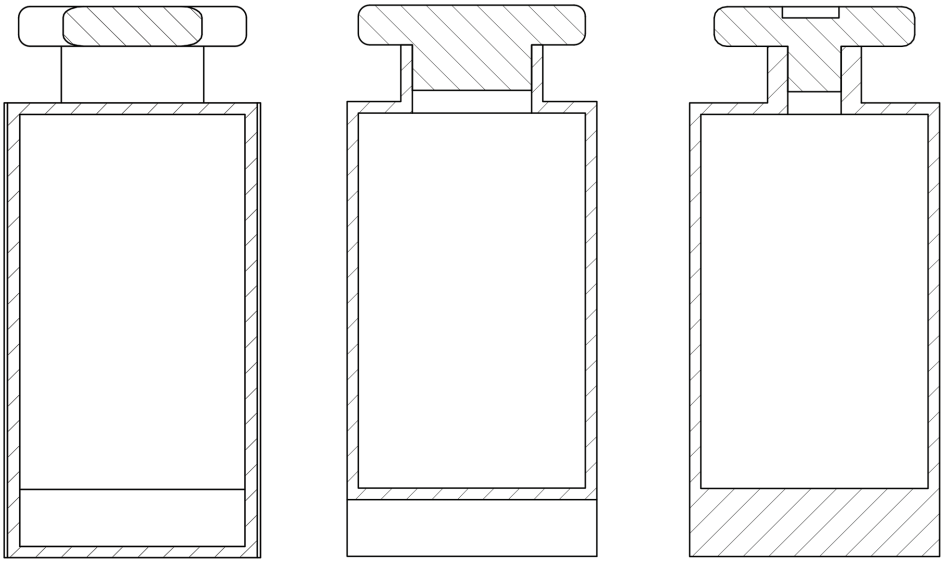
MARKS

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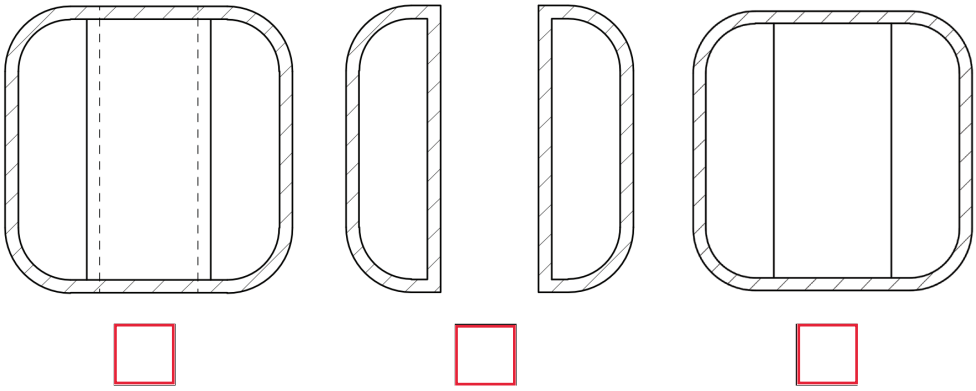
(c) Three sectional views projected from the elevation are shown below.

Identify the correct sectional view for each cutting plane by ticking (✓) a box below.

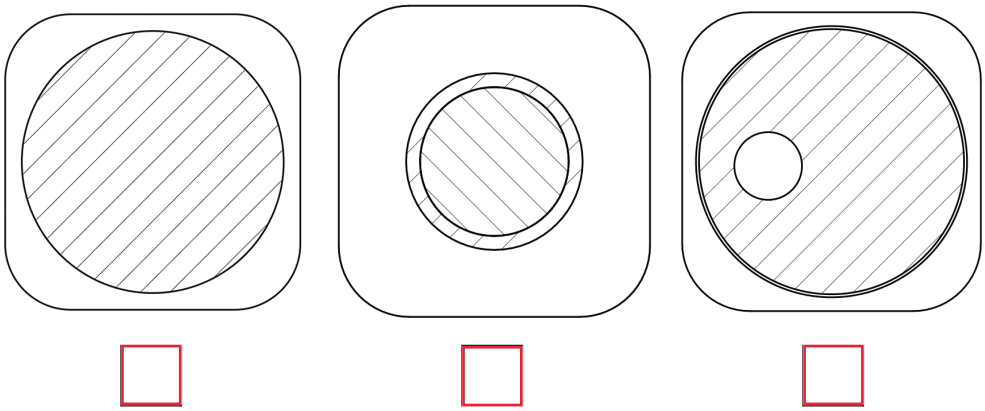
(i) Cutting plane A–A 1



(ii) Cutting plane B–B 1

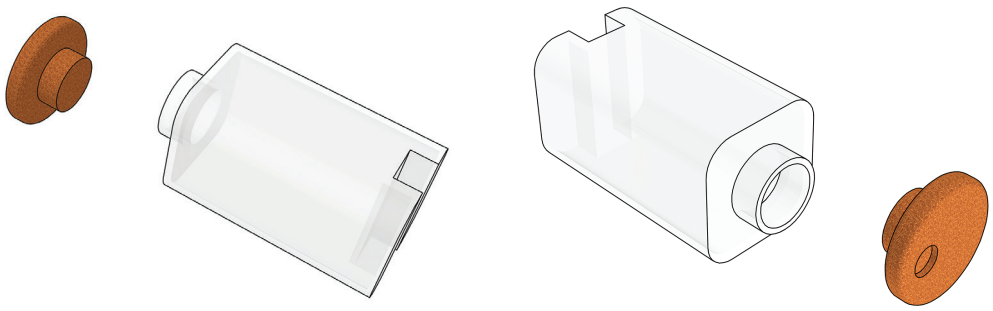


(iii) Cutting plane C–C 1



**3. (continued)**

The bottle parts were assembled using 3D CAD assembly techniques.



(d) Describe, using 3D CAD constraints, how to assemble the bottle and lid.
You may annotate the graphic shown above to support your answer. **2**

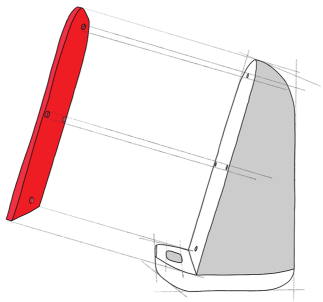
**4.** A designer has created manual preliminary sketches for a smartphone charging dock.

(a) Describe **two** reasons for creating preliminary sketches. **2**

The designer created more preliminary sketches using digital methods. Two of the preliminary sketches are shown below.

charging dock concept





dock with detachable face plate

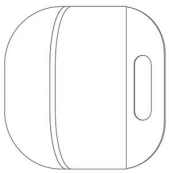
(b) Describe **two** advantages of creating digital sketches over manual methods. **2**

(c) The designer displays their work in an online portfolio.

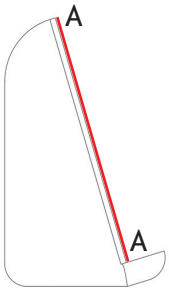
Explain **two** benefits to the designer of having their portfolio published online rather than being printed. **2**

**4. (continued)**

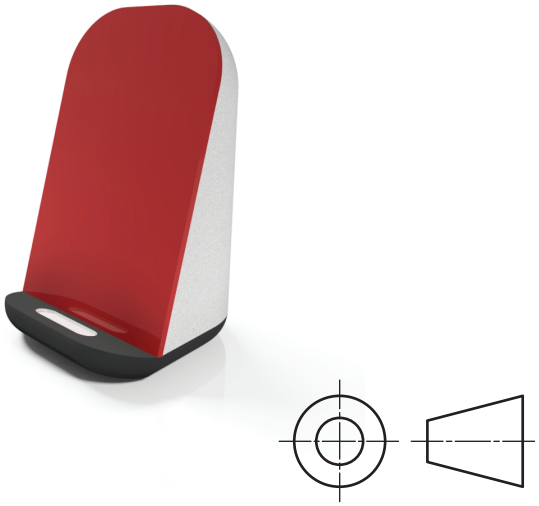
An orthographic drawing and rendered pictorial view of the charging dock are shown below.



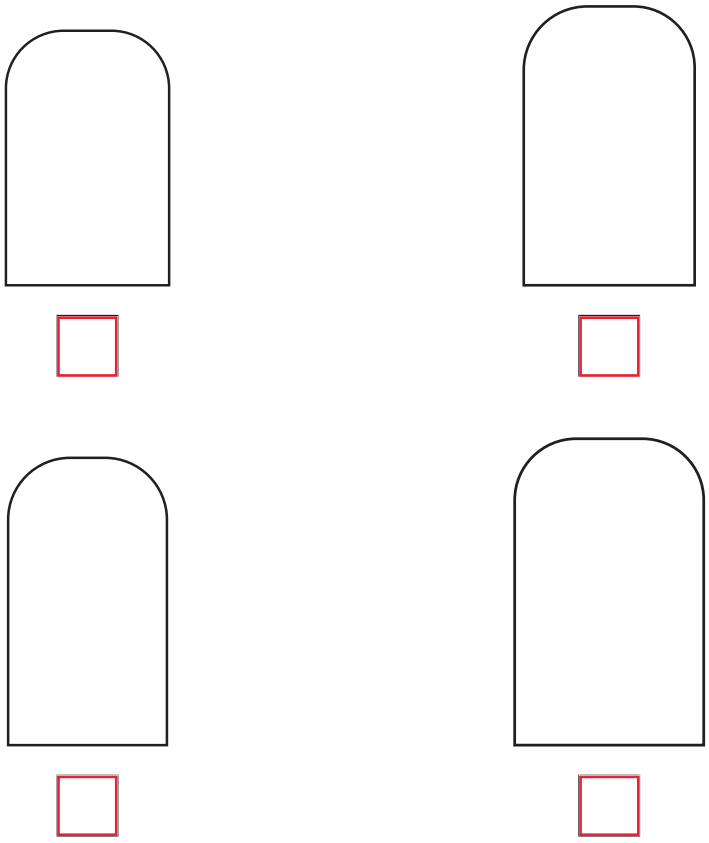
PLAN




ELEVATION



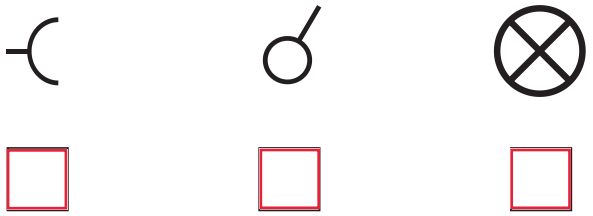
(d) Identify the correct true shape of the sloping surface A–A by ticking (✓) a box below. **1**



**4. (continued)**

(e) The charging dock will be connected to a socket.

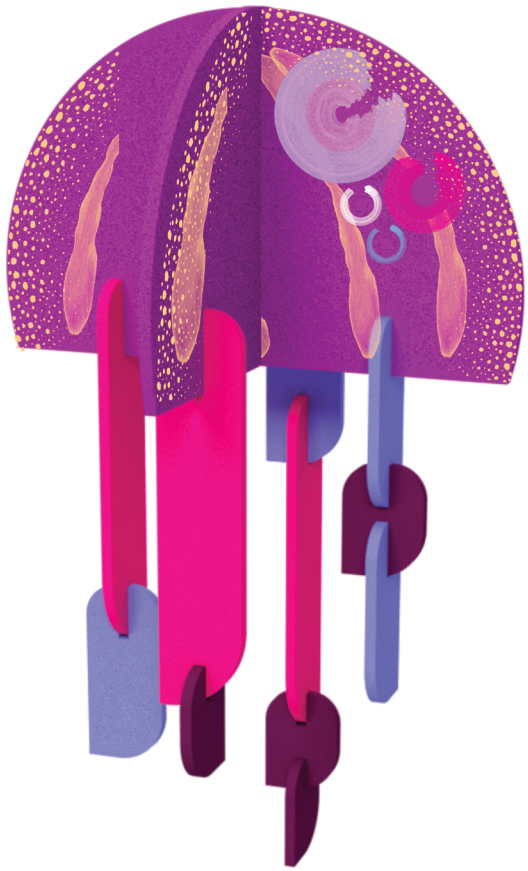
Identify the correct British Standard symbol for a socket by ticking (✓) a box below. **1**



**[Turn over**

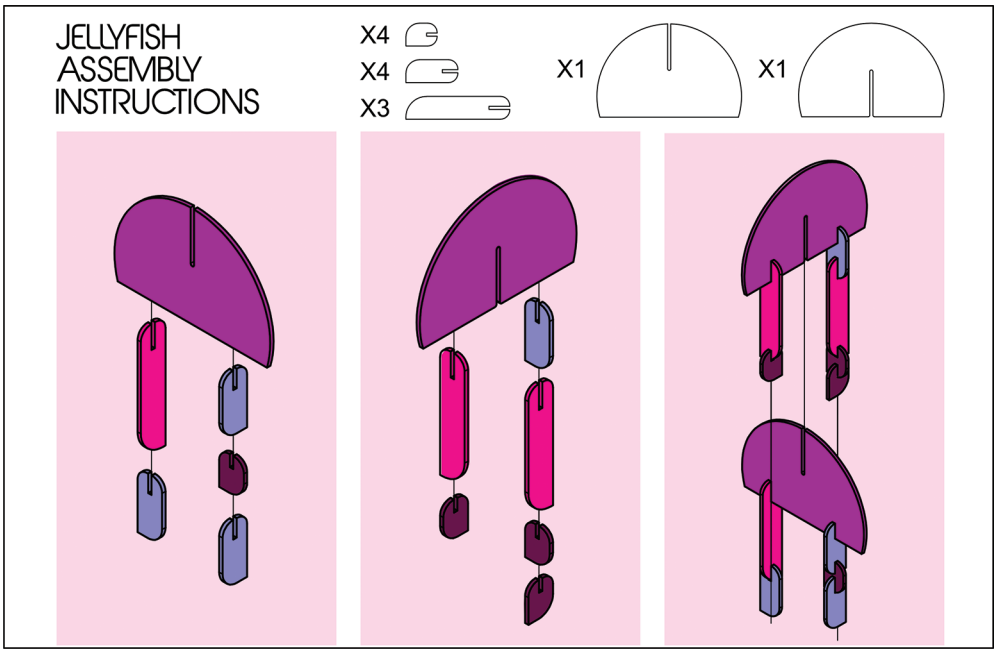
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**5.** A manufacturer has produced a range of toys. A 3D CAD illustration of a jellyfish toy is shown below.



jellyfish toy

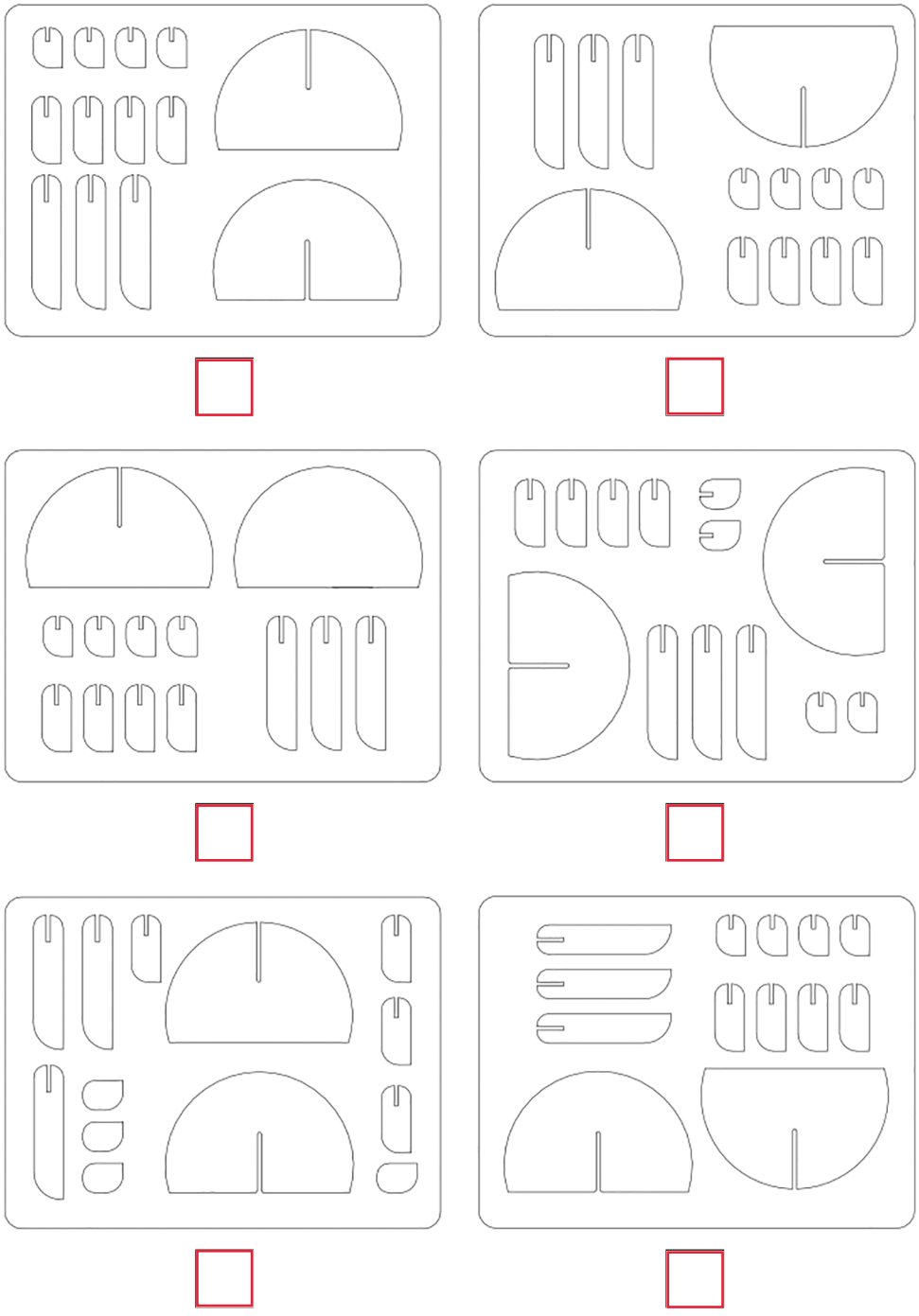
The assembly instructions for the jellyfish toy are shown below.



**5. (continued)**

(a) The jellyfish toy parts are cut out from one sheet of material. Some layouts are shown below.

Identify the **two** correct layouts by ticking (✓) **two** boxes. **2**



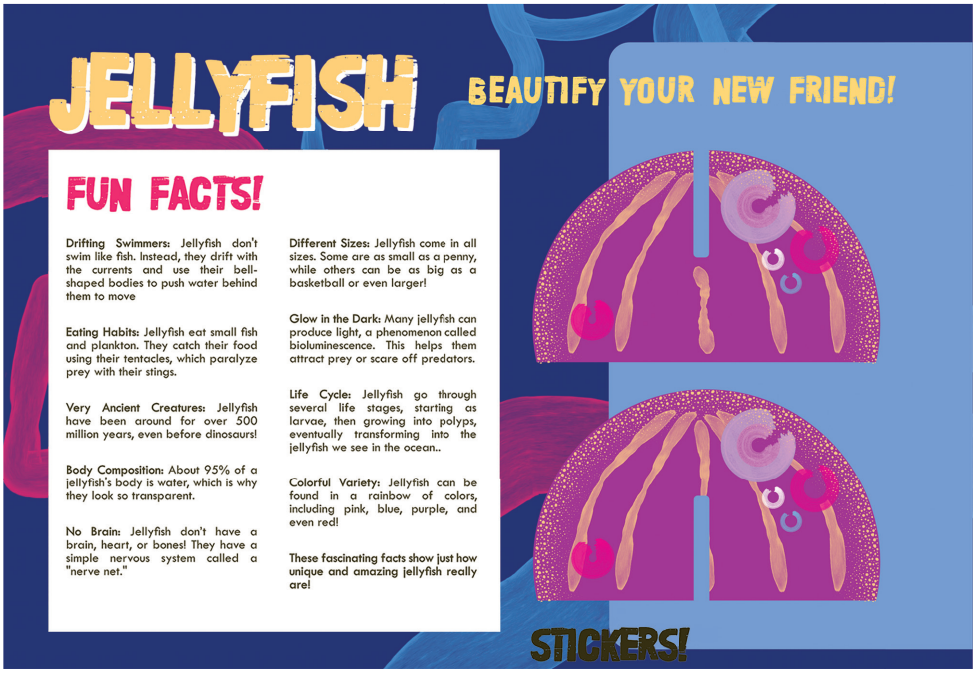
**[Turn over**

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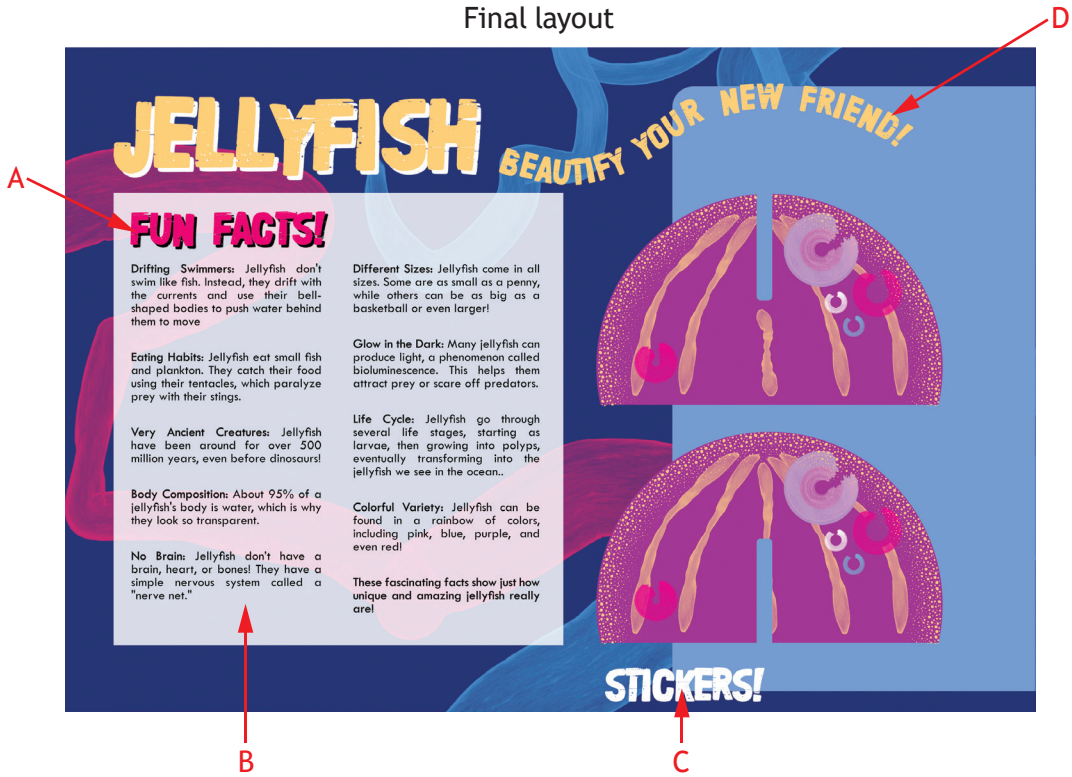
**5. (continued)**

The jellyfish toy is sold with a sticker fact sheet. The first draft, and final layout of the graphics are shown below.

Draft layout




Final layout



**5. (continued)**

(b) State the names of the DTP edits, A to D, applied to the final layout, shown opposite.

Do not refer to scaling or resizing in your answer, and you must give a different answer for each response.

(i) Edit A to the 'fun facts' text: **1**

(ii) Edit B to the white box: **1**

(iii) Edit C to the 'STICKERS' text: **1**

(iv) Edit D to the 'BEAUTIFY YOUR NEW FRIEND' text: **1**

(c) Describe, giving **two** reasons, the effect yellow-orange has on the title. **2**

Colours were selected by referring to the colour wheel.

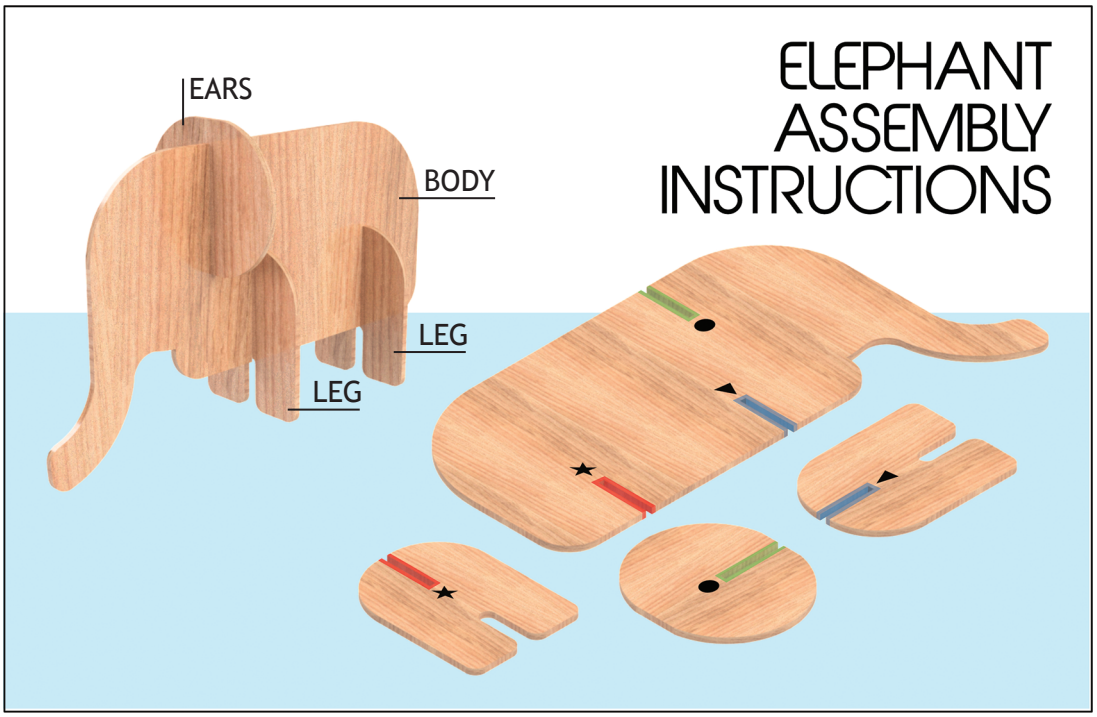
(d) Complete the table below stating whether the colours are primary, secondary or tertiary. **3**

| Colour | Primary, Secondary or Tertiary |
|---|---|
| Purple | |
| Blue | |
| Yellow-orange | |

**[Turn over**

**5. (continued)**

Assembly instructions for an elephant toy are shown below.




(e) Identify **two** features of the assembly instructions that make them easy to understand. **2**

**6.** A rendered 3D CAD illustration of a bottle holder is shown below.



(a) State the name of **two** CAD Illustration techniques that have been applied to the model. **2**

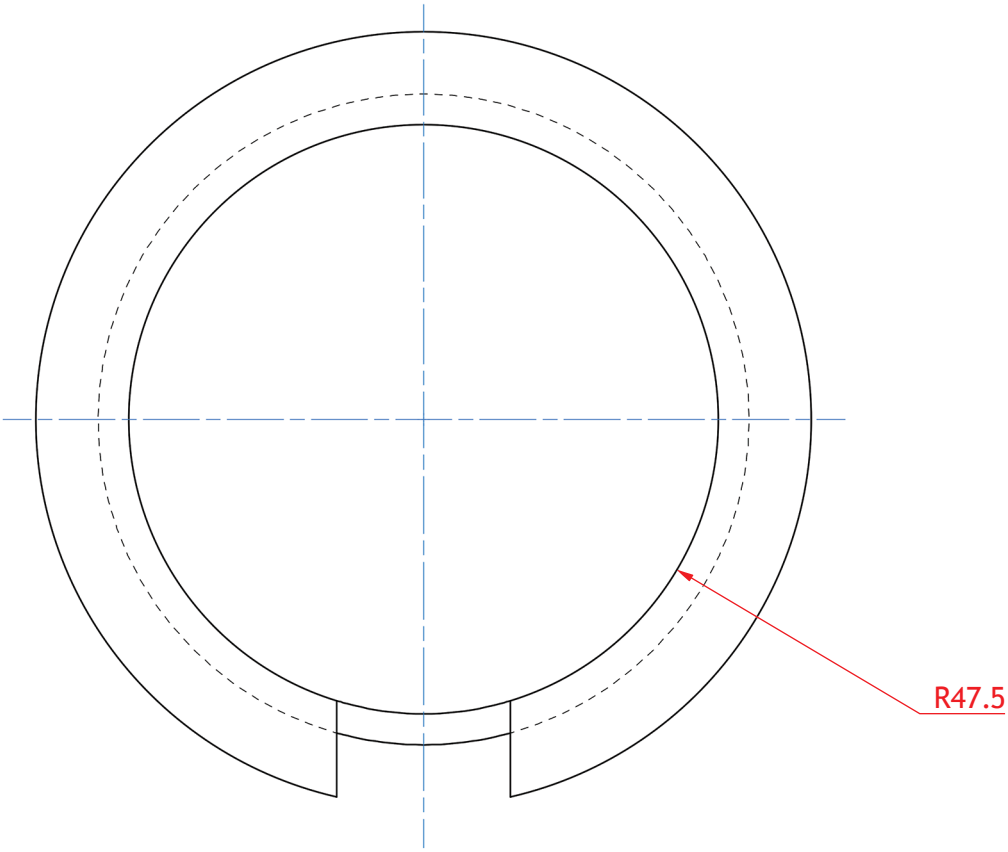
(b) Explain **one** effect CAD illustration techniques have on 3D models. **1**

**[Turn over**

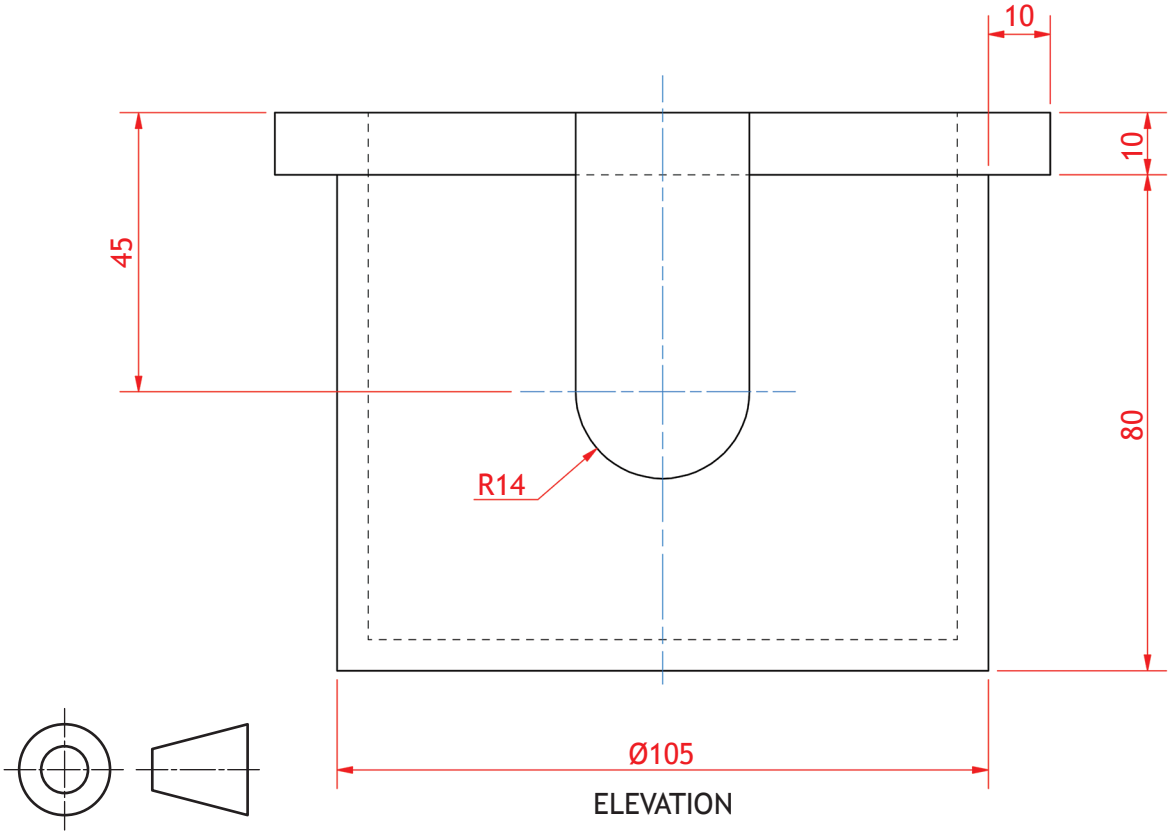
**6. (continued)**

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An orthographic drawing of one of the bottle holder components is shown below.




PLAN




ELEVATION

**6. (continued)**

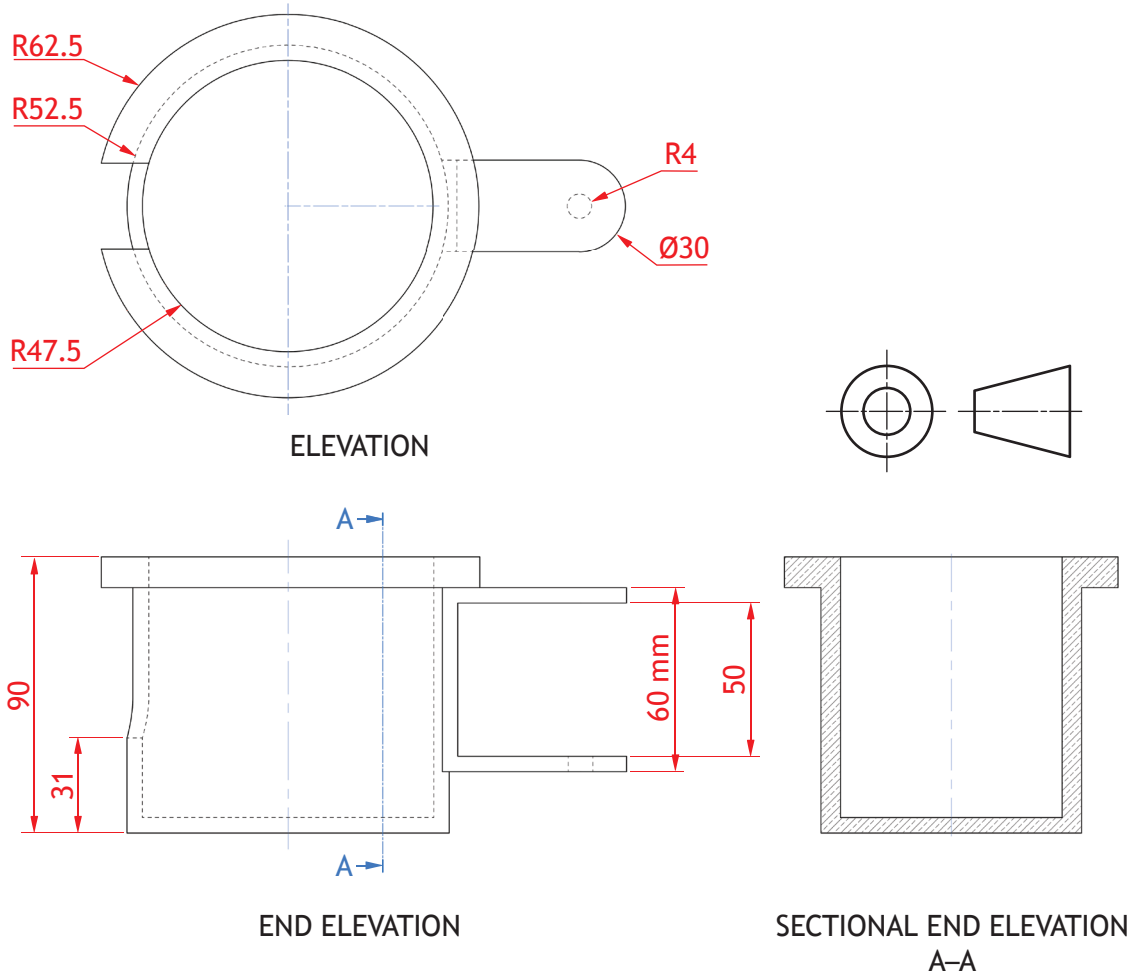
(c) Describe, using the correct dimensions and 3D CAD modelling terms, how you would use 3D CAD software to model the bottle holder.

You may use sketches to support your answer. **5**

MARKS

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An orthographic drawing of the assembled bottle holder is shown below.



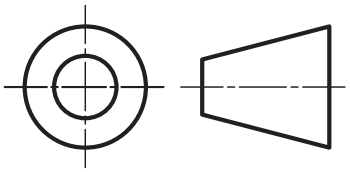

The orthographic drawing contains errors that do not conform to British Standards.

(d) Identify **six** errors in the orthographic drawing. **6**

You may annotate the drawing to support your answer.

**6. (continued)**

A title block will be added to the final orthographic drawing. The title block will include the symbol shown below.



(e) (i) Describe the purpose of this symbol. **1**

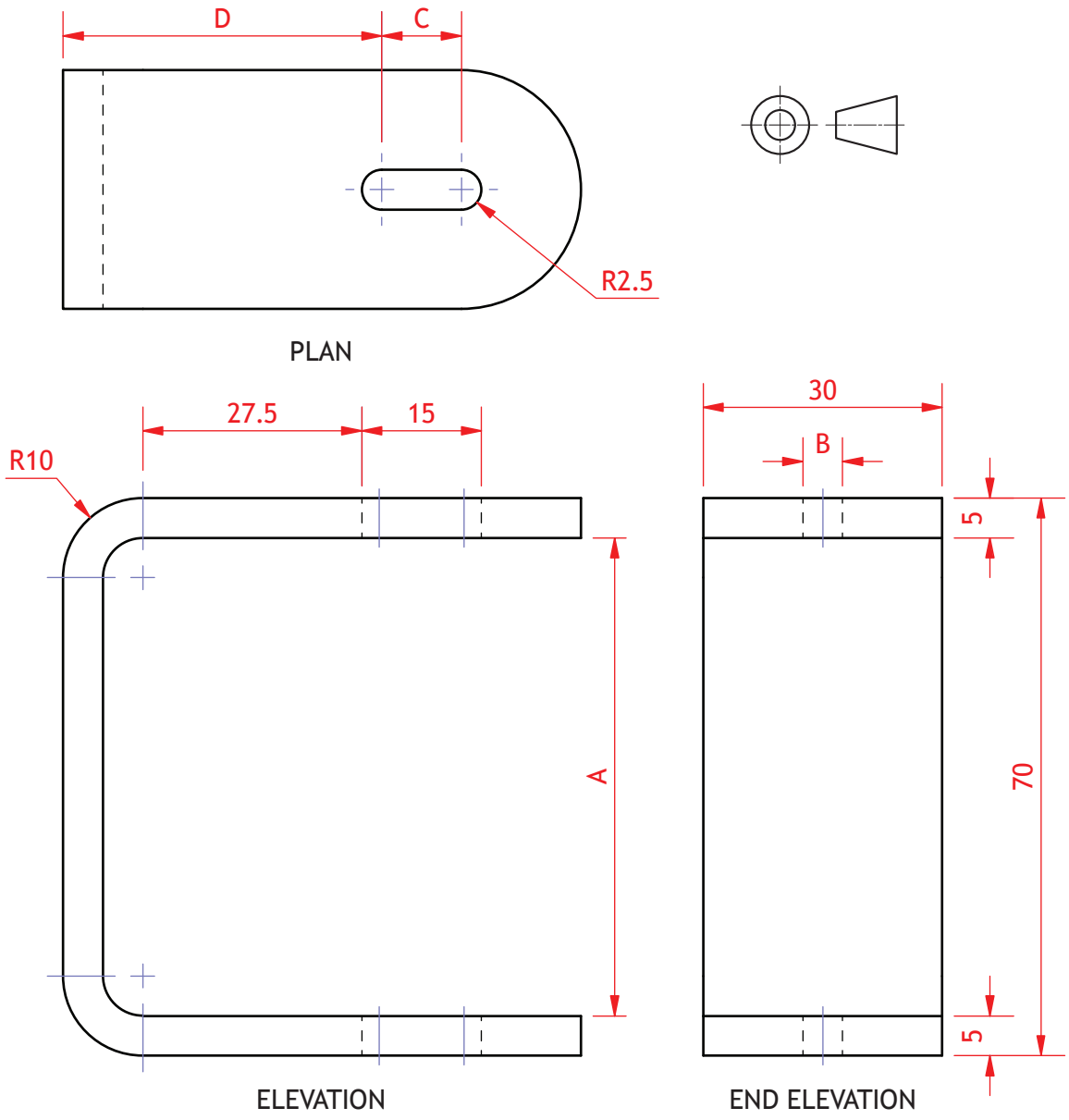
(ii) State **three** other pieces of information that should be included in a title block. **3**

**[Turn over**

**6. (continued)**

**MARKS** DO NOT WRITE IN THIS MARGIN

An updated orthographic drawing of another component from the bottle holder is shown below.




(f) Calculate the missing dimensions, A to D, from the orthographic drawing. **4**

A = _____ mm

B = _____ mm

C = _____ mm

D = _____ mm

**[END OF QUESTION PAPER]**

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## ADDITIONAL SPACE FOR ANSWERS

DO NOT WRITE IN THIS MARGIN

## ADDITIONAL SPACE FOR ANSWERS

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