

THIS IS A LEGACY SPECIFICATION

## GENERAL CERTIFICATE OF SECONDARY EDUCATION

DESIGN AND TECHNOLOGY 1955/02

1055/02

Graphic Products (Short Course)

Paper 2 (Higher Tier)

Candidates answer on the Question Paper

<p><b>OCR Supplied Materials:</b></p> <p><b>Attachment</b></p>	
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None

Drawing aids may be used

\*ZQSSQITZQSSSGT\*

**Duration:** 1 hour 30 minutes

## Afternoon

Friday 11 June 2010

1955/02  
1055/02

DESIGN AND TECHNOLOGY 1955/02

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**INSTRUCTIONS TO CANDIDATES**

- [illegible]

INFORMATION FOR CANDIDATES		2		
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|--|--|---|--|--|--|
|  |  |   |  | The number of marks is given in brackets [ ] at the end of each question or part question. |  |
|  |  | 3 |  | The total number of marks for this Section is 50.  |  |
|  |  | 4 |  | Dimensions are in mm unless stated otherwise.  |  |
|  |  | 5 |  | Marks will be awarded for the use of correct drawing conventions.                          |  |
|  |  |   |  | This document consists of 3 printed sheets.  |  |

Examiners Use Only:			
1			
2			
3			
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5			
Total			

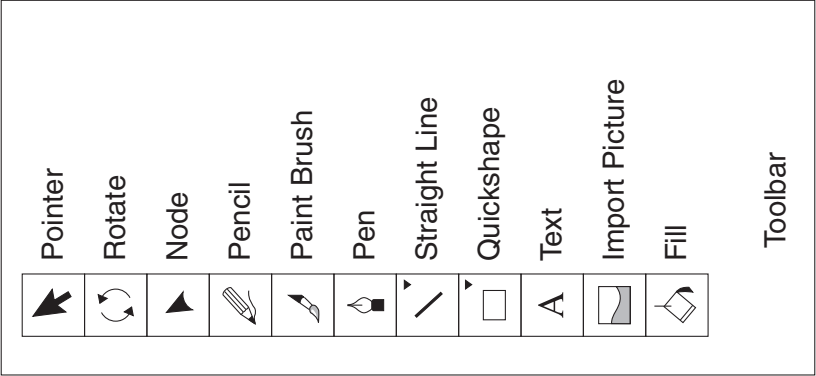
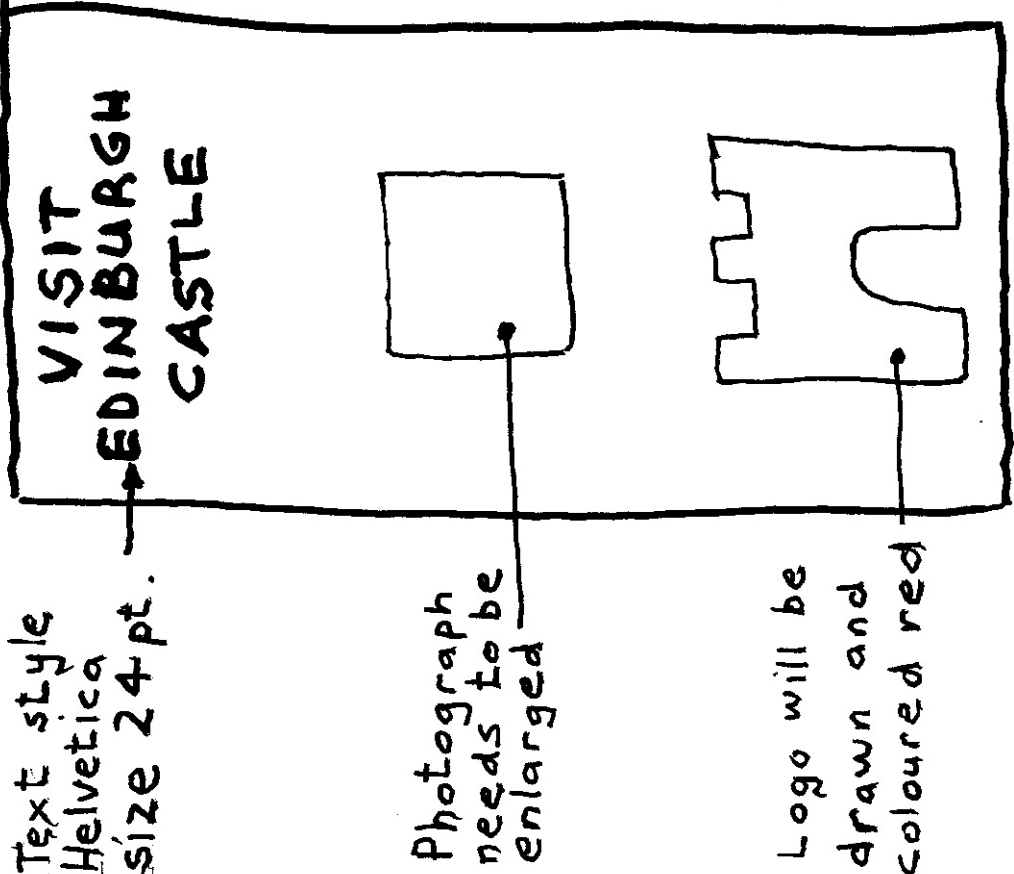
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**Turn over**



1 The freehand sketch below shows an initial idea for the front of a leaflet about Edinburgh Castle.  
The final design will be produced on a computer using tools from the toolbar shown below.



(a) Tick (✓) the type of computer software that would be best to produce the final design. [1]

Spreadsheets	Database	CAM	2D CAD

(b) The logo will be used on a range of other products such as posters and packaging.

State **two** advantages of having the logo stored on a computer system when designing these products.

Advantage 1 \_\_\_\_\_ [1]

Advantage 2 \_\_\_\_\_ [1]

(c) State a method of importing a photograph taken with a digital camera into a computer system without printing the image.

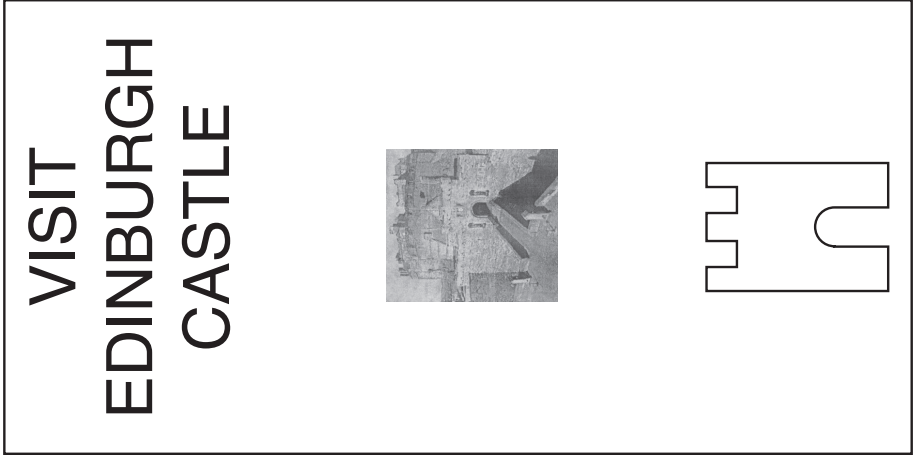
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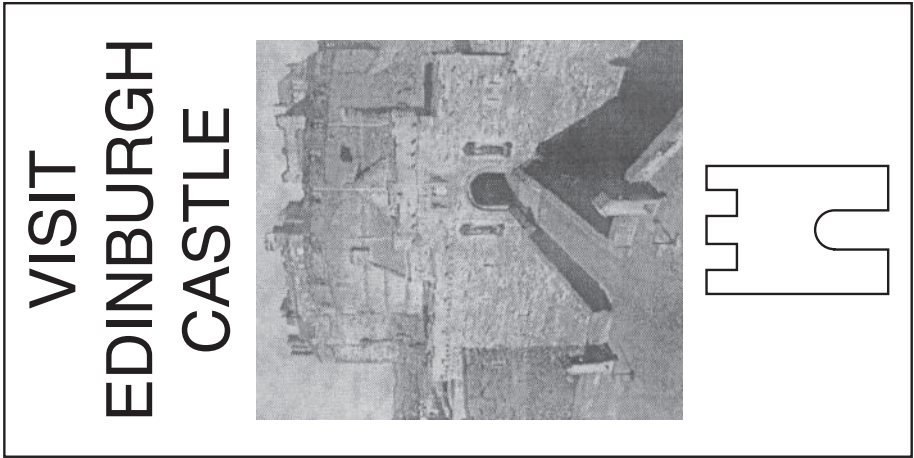
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\_\_\_\_\_ [1]

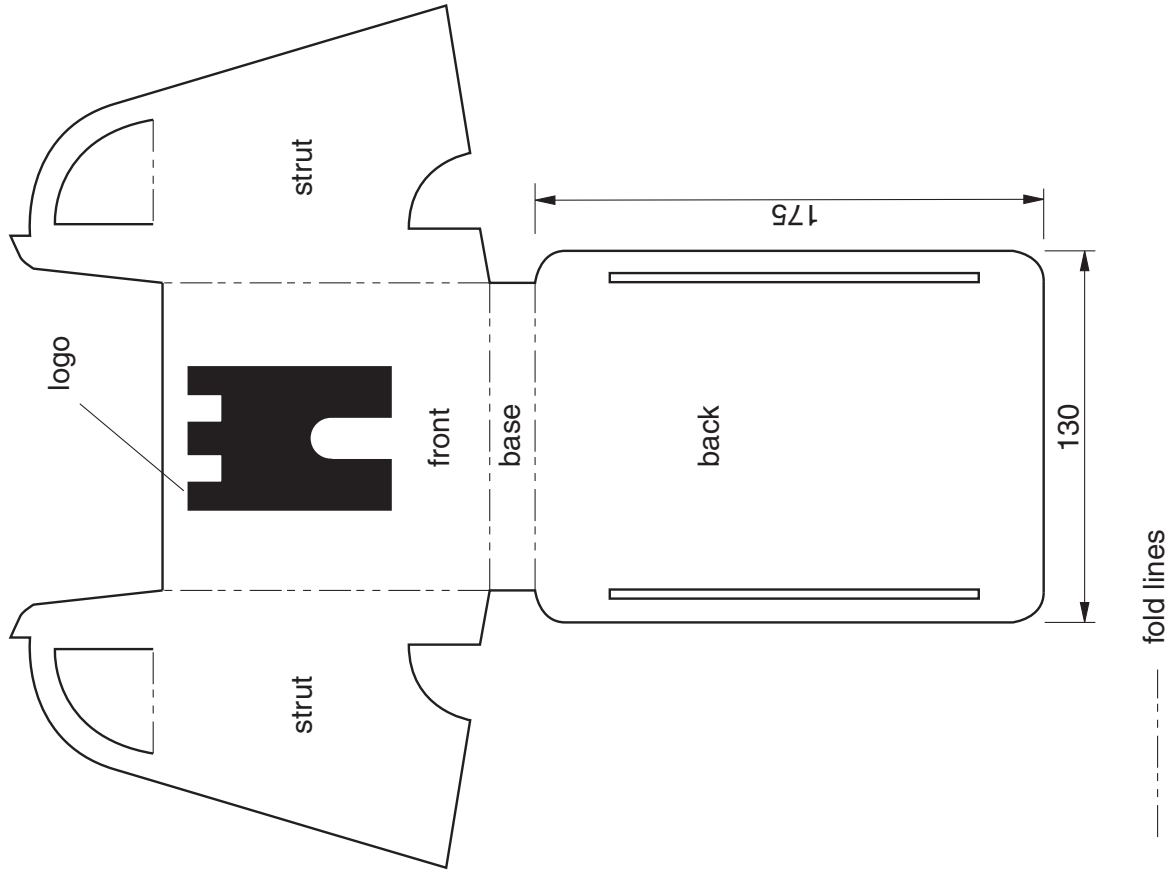
(d) Add sketches and notes to the given drawing to explain how the photograph would be enlarged using tools from the toolbar. [3]



(e) Add sketches and notes to the given drawing to explain how the logo would be coloured red using tools from the toolbar. [3]



2 The development (net) of a holder for leaflets about Edinburgh Castle is shown below.  
The leaflet holder is made from card.



(a) State a suitable thickness of card for making the leaflet holder and give **one** reason for your choice.

Thickness of card \_\_\_\_\_ [1]

Reason for choice \_\_\_\_\_ [1]

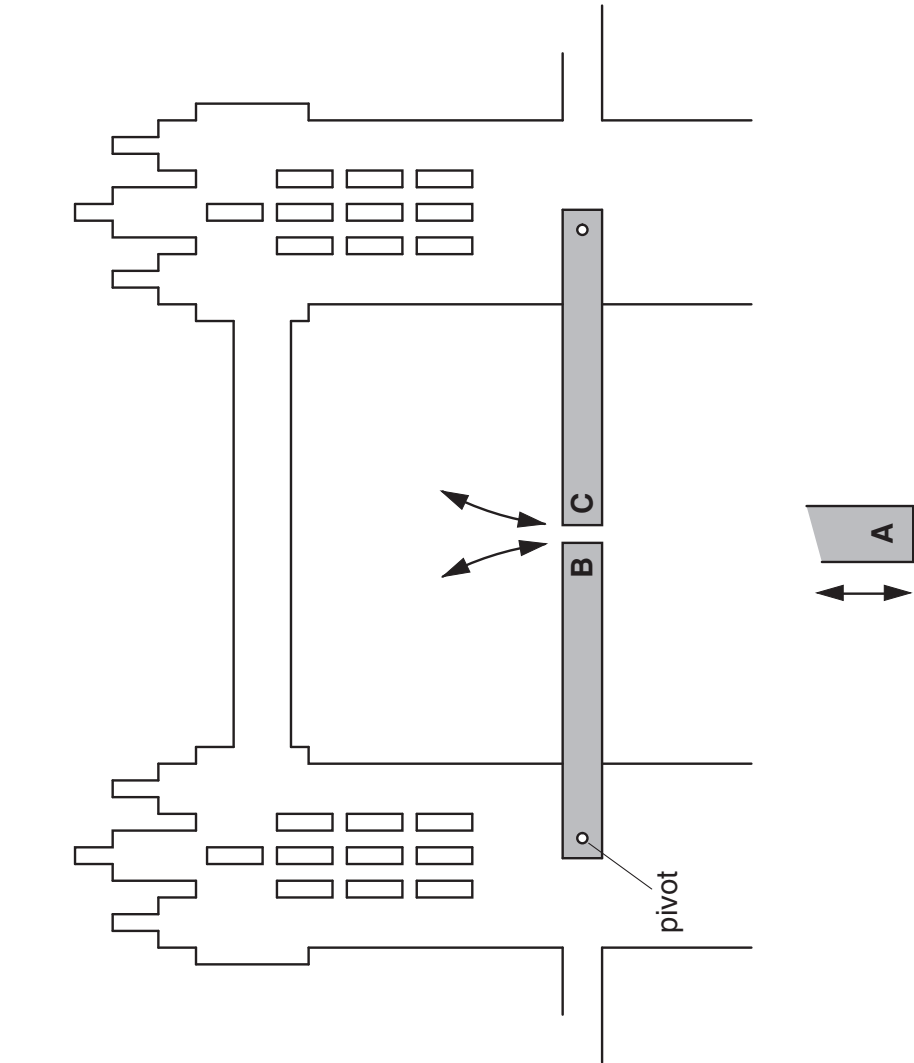
(b) Sketch a pictorial (3D) view of the assembled leaflet holder.  
Do not draw the logo. [4]

(c) Use sketches and notes to describe how a stencil could be made and used to add the logo to the front of the leaflet holder. [4]



<div><div><div>4</div><div>A pictorial (3D) freehand sketch of a model of a clock tower is shown below. The model is made from card.</div></div><div><div><div>(a)</div><div>On side A sketch the missing clock face and hands.</div><div>[2]</div></div><div><div><div>(b)</div><div>Add pencil shading to the sketch to enhance its 3D appearance.</div><div>[2]</div></div></div></div><div></div></div>	<div><div><div>(c)</div><div>Use drawing instruments to complete the drawing of the development (net) of the model. Do not add the surface details. Clearly show cut lines, fold lines and glue tabs.</div><div>[4]</div></div><div></div><div>Development (net) of the model of a clock tower</div></div>	<div><div><div>(d)</div><div>The model is to be modified so that it can be used as a money box.  Use a sketch and notes to show a modification which allows the model to be opened and closed to remove the money.</div><div>[2]</div></div></div>
1955/02 & 1055/02 D & T: GRAPHIC PRODUCTS	Candidate Name _____ Candidate Number _____	Centre Number _____

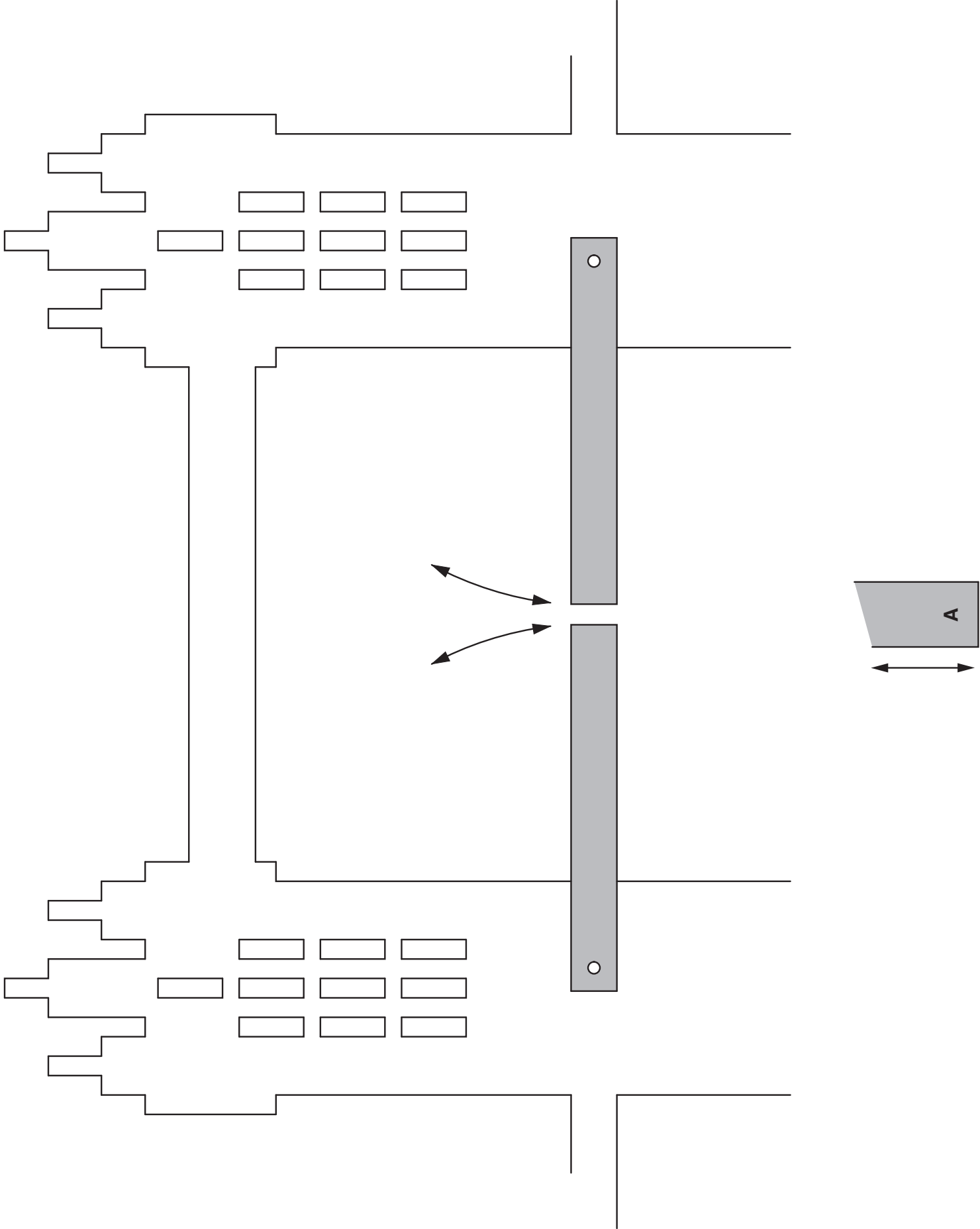
5 An incomplete design for a working 2D model of Tower Bridge is shown below. Pushing and pulling part A raises and lowers the bridge.



(a) Name the type of motion that takes place when:

- (i) part A is pushed and pulled up and down in a straight line; [1]
- (ii) B and C move up and down following a curved path as the bridge is raised and lowered. [1]

(b) Complete the drawing below by adding a linkage mechanism between part A and the two opening parts of the bridge. The linkage must be made from strips of card. [4]



(c) Draw a key to show which are fixed pivots and which are moveable pivots on the mechanism. [2]

(d) Sketch and name a component that could be used to both join the strips together and act as a pivot. [2]









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