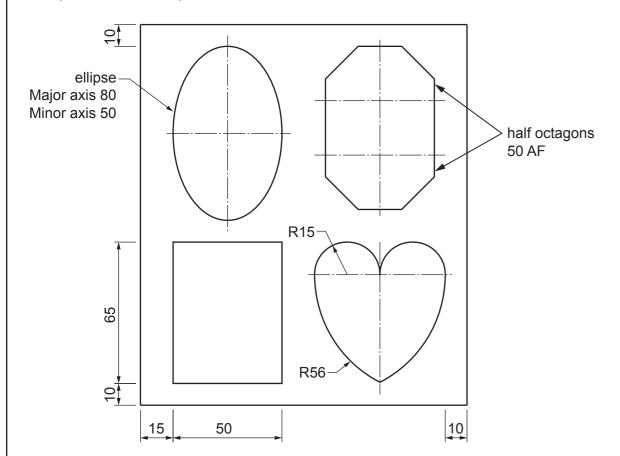
## Section A

Answer all questions in this section.

**A1** A photo mount for a picture frame is shown below.



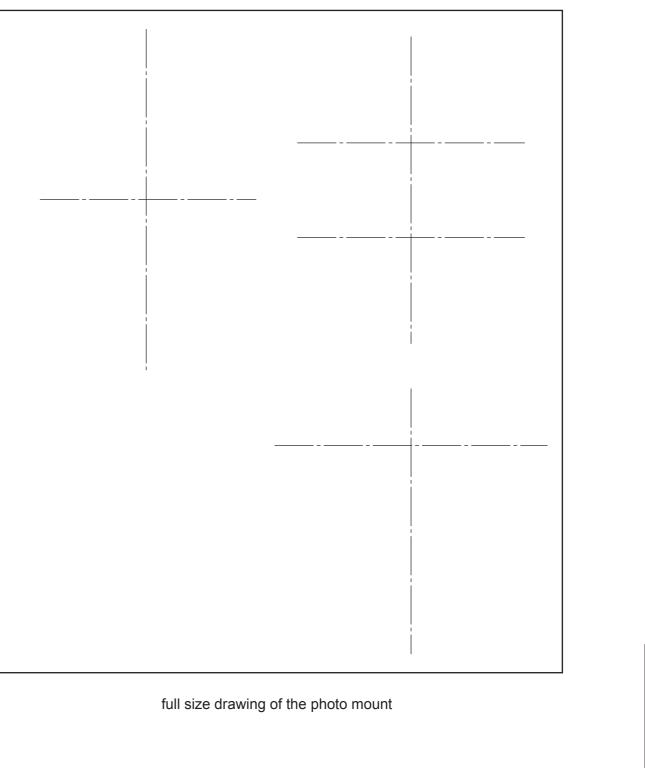
In the space provided to the right, complete the full size drawing of the photo mount by constructing:

- (a) the rectangle shape [2]
- (b) the ellipse shape [6]
- (c) the eight sided shape [4]
- (d) the heart shape. [4]

## **A2** The photo mount is made from thin card.

The shapes will be cut out by hand using a craft knife. Name **one** other item of equipment you would need to use when cutting out the shapes with a craft knife.

......[1]



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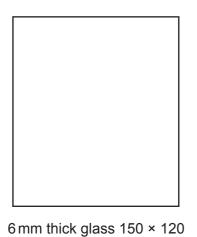
Centre Number .....

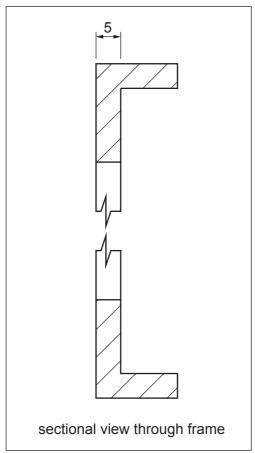
Candidate Number .....

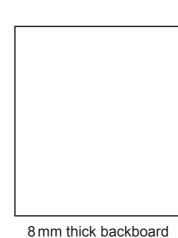
Candidate Surname ...... Other Names ..... [Turn over

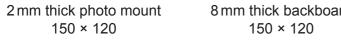
Sheet 1 of 2

**A3** Parts for a picture frame are shown below. A sectional view through the frame is also shown. frame 160 × 130



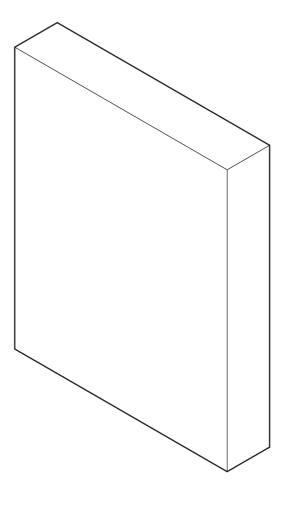


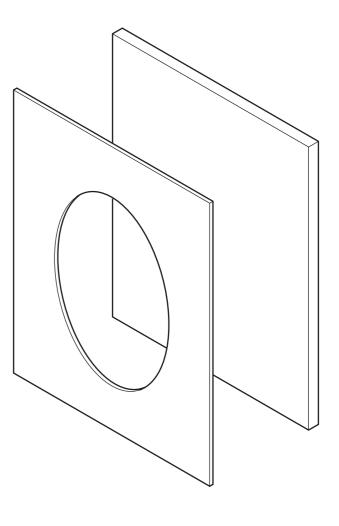




Complete the half scale exploded isometric view of the picture frame by adding:

- (a) the glass between the mount and the frame [4]
- [4] (b) the rectangular hole in the frame.

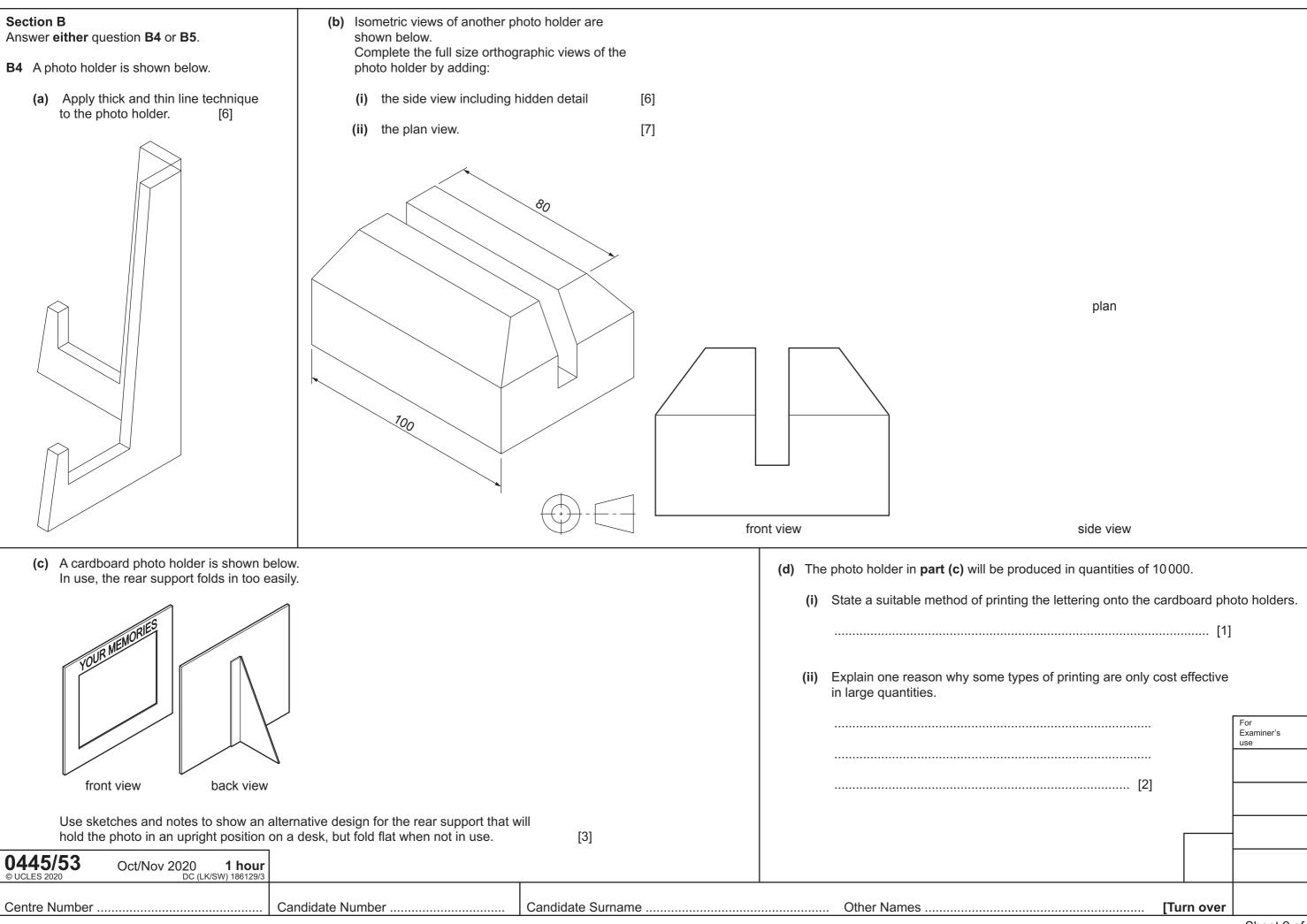




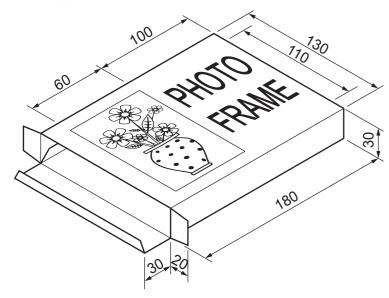
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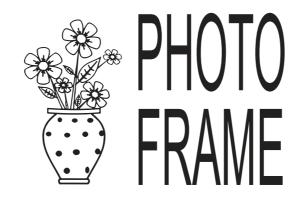
Oct/Nov 2020

1 hour









(a) (i) In the space provided, complete the half size development (net) of the photo frame package.

[14]

(ii) Add the rectangle around the image. [2]



**(b)** The image on the front of the photo frame package is shown on the right.

The image is drawn on paper by hand before being transferred onto a computer.

(i) State **one** method of transferring the image from paper onto the computer.

.....[

(ii) Name two ways the image could be altered using a computer.

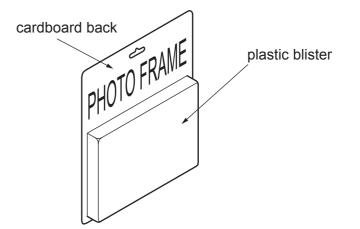
(iii) Name **one** suitable piece of CAM equipment that could be used to cut out the development (net) of the package from thin card.



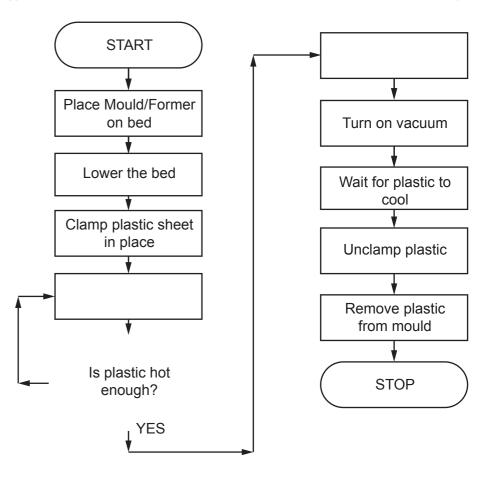
Oct/Nov 2020 1 hour

(c) An alternative package for the photo frame is shown below.

The plastic blister of the package is made using a vacuum former.

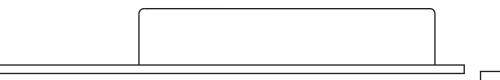


(i) In the space below complete the flow chart of the vacuum forming process.



(ii) A side view of the mould for the vacuum formed blister is shown below.

Sketch a modification onto the side view of the mould that will allow the plastic blister to be removed more easily.



[1]

[4]