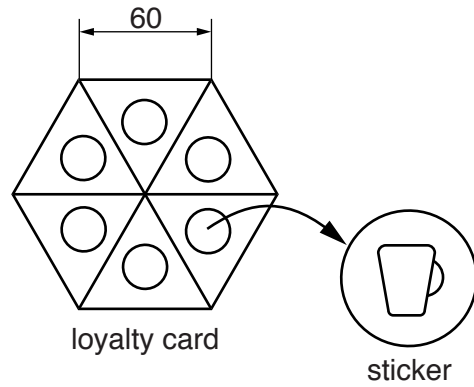


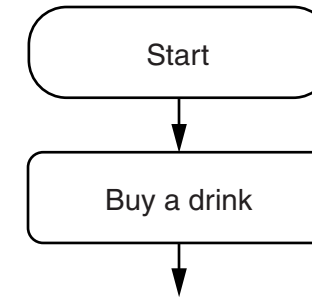
**Section B**

Answer **either** question **B4** or **B5**.

**B4** A café loyalty card is shown below. Customers are given a sticker when they buy a drink and once they have six stickers attached to the loyalty card they get a free drink.

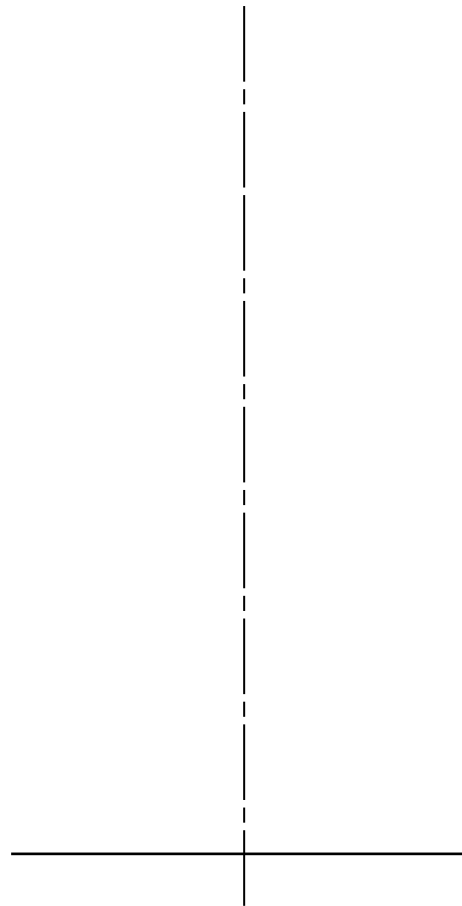


**(b)** A flow chart is printed on the back of the loyalty card to show customers what they have to do to get a free drink. Complete the flow chart below by adding four more stages. [9]



**(a)** On the centre lines below construct a full size view of the loyalty card by:

- (i)** completing the drawing of the regular hexagon with length of side 60; [2]
- (ii)** dividing the hexagon into six equal triangles; [3]
- (iii)** adding a Ø20 circle in the middle of each triangle. [7]



**(c)** 10 000 loyalty cards are printed by lithography.

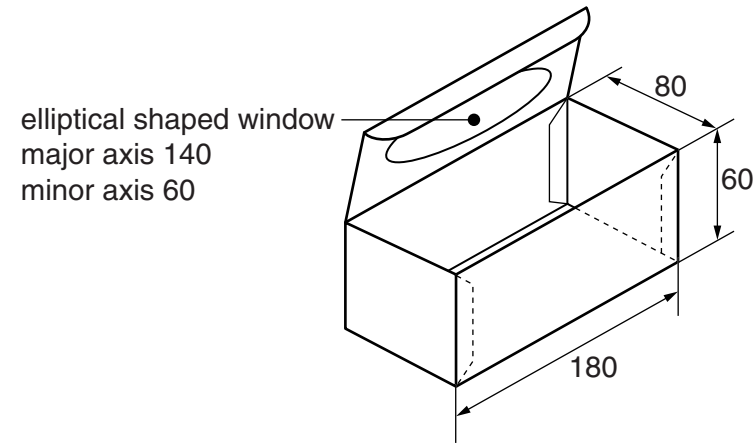
- (i)** Name the commercial process used to cut out the loyalty cards.  
.....[1]
- (ii)** Give **three** examples of where ICT could be used in the design and manufacture of the loyalty card.
  - 1. ....[1]
  - 2. ....[1]
  - 3. ....[1]

For Examiner's use

**0445/21** May/June 2015 **1 hour**  
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Centre Number ..... Candidate Number ..... Candidate Surname ..... Other Names ..... **[Turn over]**

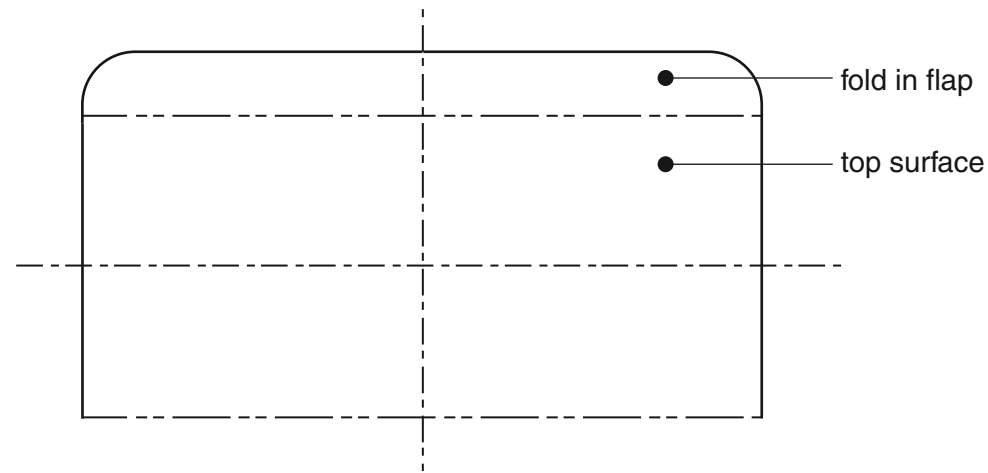
**B5** A sketch of a package for biscuits is shown below.



**(b)** The fold in flap needs to lock in place without the use of glue. In the space below use sketches and notes to show a design for a locking flap. [3]

**(a)** Complete the scale 1:2 development (net) of the package for the biscuits below by:

- (i)** constructing the elliptical shaped window on the given top surface; [7]
- (ii)** drawing the remaining surfaces and glue tabs of the development (net). [9]



**(c)** Complete the table below to explain **three** pieces of information that are printed on the package for the biscuits.

Symbol	Explanation
	<p>This means the card used to make the package can be recycled.</p> <p>[2]</p>
	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>[2]</p>
<p>200g </p>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>[2]</p>