## Section A A2 The trailer is to be redesigned to include a mechanism that allows the top of the trailer to lower. Answer all questions in this section. A model of the mechanism is made from four strips of card shown below. A1 A sketch of a model of a car transporter is shown below. trailer (a) Sketch and name a method of fastening the strips of card together. [2] Complete the orthographic views of the cab of the car transporter shown below. [6] (b) Complete the schematic drawing below to show the path of point A as the line X – Y moves from a vertical to a horizontal position. side view end view plan 0445/22 © UCLES 2017 May/June 2017 **1 hour** DC (NF/SG) 127896/2 Candidate Number ..... Candidate Surname ...... Other Names ..... [Turn over

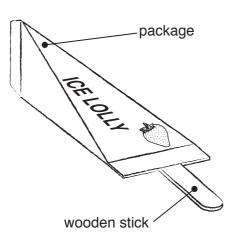
3 Car shapes cut from foam board sheet are added to the trailer of the car transporter.		(b) State two reasons why foam board is a suitable material for the car shape.
Orthographic views of one of the car shapes are shown below.		1[1]
		2[1]
		(c) Describe how a computer could be used to search for and capture a car shape.
		Search for
<b>Y</b> 7		[2]
(a) Construct a 2 : 1 isometric drawing of the car shape from the given start point A. Sizes should be taken from the orthographic views.	[7]	Capture
		[2]

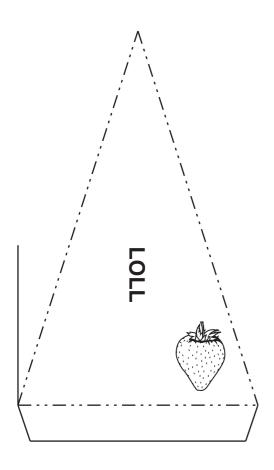
## Section B

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

**B4** A sketch of a package for an ice lolly is shown on the right.

- (a) Complete the full size drawing of the development (net) of the package for the ice lolly below by:
  - (i) adding the missing surfaces; [8]
  - (ii) adding the missing glue tabs; [4]
  - (iii) completing the name ICE LOLLY. [3]





(b)	Describe the printing method used to produce 10 000 colour copies of the package for ice lolly.	the
		. [6]
(c)	Name and justify the choice of a colour for the fruit shape on the package for the ice lolly.	
(d)	Draw and name another symbol that should be added to the package for the ice lolly.	[2]

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