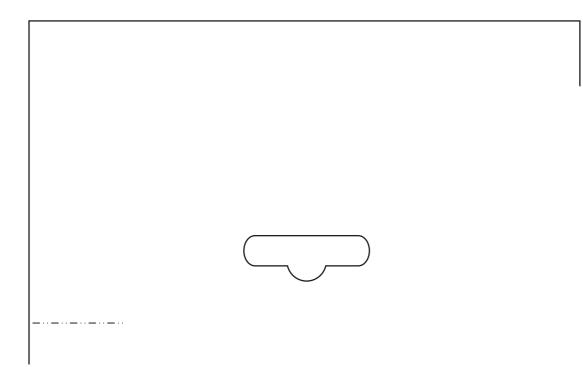


[6]

(a) Complete the drawing below of the development (net) of the card closure.



(b) The information below shows the sales of three different table sizes in 2016.

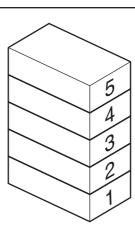
	small	medium	large
sales	10 000	12500	8000

In the space below draw a three-dimensional bar chart to show the sales of the three different table sizes. Use labels to enhance the appearance of the drawing.

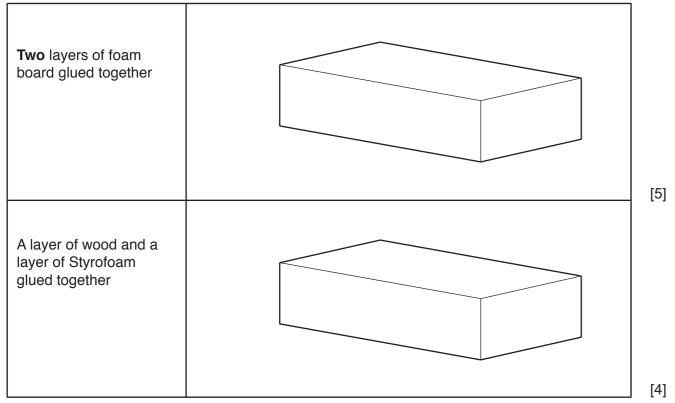
[4]

Section B (b) The novelty sweet package is to be made from a **one**-piece development (net). In the Answer either question B4 or B5. space below sketch a design for the one-piece development (net). [10] ear **B4** A novelty sweet package in the shape of an animal is shown on the right. glue tab (a) Complete the orthographic views below of the novelty sweet package by: (i) adding the second ear; [3] (ii) completing the glue tab and the tail; [4] (iii) completing the end view. [3] Estimate any dimensions not given. (c) Spectacles are added to the face on the novelty sweet package. The spectacles are made from SMA. (i) Complete the words below to show the meaning of SMA. [3] S...... A...... front view end view (ii) Give two reasons why SMA is a suitable material for the spectacles. 1. [1] 2. plan 0445/22 Oct/Nov 2017 1 hour 1 hour Centre Number Candidate Number Candidate Surname Other Names [Turn over Sheet 2 of 2

B5 A sketch of a model of an office building is shown on the right. The model is made from five blocks.



(a) Render the drawings below to show **two** materials the blocks could be made from.



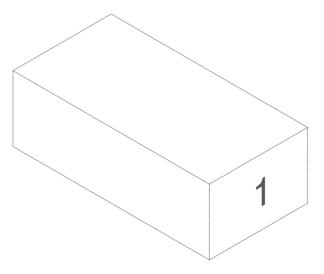
- (b) A decision is made to make the blocks from Styrofoam.
 - (i) Give two reasons why Styrofoam is a suitable material for the blocks.

1.	[1

- 2.[1]
- (ii) Name a specific adhesive for joining the Styrofoam blocks together.

(c) A modified model of the office building is to be made by rotating blocks 2 and 4 through 90 degrees on the central axis.

Complete the isometric drawing below of the modified model.



(d) Use sketches and notes to show a method of adding windows to the surface of the Styrofoam model.

[3]

[10]