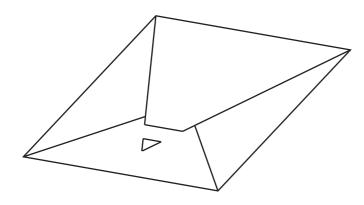
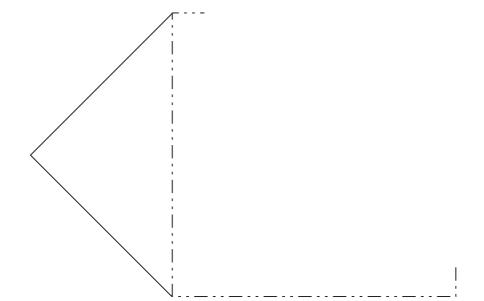
Section A Answer all qu	uestions in this section.			A2 A sketch of a route around a garden is shown below.	
A1 A desigr are used	n for a folding map is shown on th d to guide visitors around gardens	ne right. Versions of the map s, castles and farms.		FLOWERS	
(a) Cor	mplete the drawing below of the d	lesign for the front of the map by:		POND	
(i)	completing the outline of the she	eet of paper;	[2]	PICNIC AREA	
(ii)	drawing the fold lines;		[3]	START/END LAKE	
(iii)	constructing a hexagon with 20 m	mm length of side around the letter 🕅.	[2]		
				(a) Complete the schematic drawing below of the route around the garden.	[4]
				POND A	
				START/END	
(b) The	e letter m is die cut. Use a sketch	and notes to show what is meant by 'die cul	tting'. [2]	(b) State two ways of making the schematic drawing clearer to understand.	
				1	[1]
				2.	[1]
					For Examiner's use
					use
1445/23	Oct/Nov 2017 1 hour				
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A3 A map is packaged in the card envelope shown below.



[6]

(a) Complete the development (net) below of the card envelope.



(b) The table below shows the sales of the maps over a three-year period.

	2014	2015	2016
sales	800	400	600

Construct a line graph to show the sales over the three-year period.

[4]

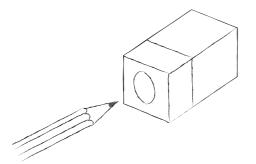
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1 hour

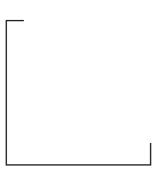
Section B Answer either question B4 or B5.		nole for himney	(c) The	play house is made from corrugated cardboard.
B4 A sketch of a child's play house is shown of			(i)	Draw a sectional view of corrugated cardboard. [3]
(a) Complete the following orthographic	views of the play house.			
(i) the front view	[5]		(ii)	
(ii) end view	[4]		(ii)	Complete the list below to show the equipment required to cut out a window in the play house.
(iii) plan	[4]			1. Cutting mat
(b) Add the projection symbol in box A.	[3]			2[1]
				3[1]
			(iii)	Market testing has shown that the area around the bottom of the cut out windows tears easily.
front view		end view		Use sketches and notes to show a method of strengthening the bottom of the opening by using the corrugated cardboard removed for the window. [4]
				For Examiner's
plan	Bo	ox A		use Examiner's use
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Centre Number	Candidate Number	Candidate Surna	ame	Other Names





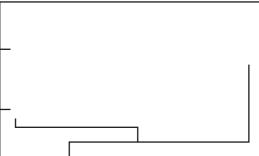
(a) Complete the estimated one-point perspective drawing below of the pencil sharpener case.

+VP1



(b) Complete the sectional view of the pencil sharpener case below.

[7]



(c) Polymorph is used to determine the final shape of the pencil sharpener case.

Give two properties of polymorph that make it a suitable material for modelling.

1.	[1	1]

- 2.[1]
- (d) Orthographic views of the pencil sharpener mechanism are shown on the right.

Complete the planometric view below of the pencil sharpener mechanism. Estimate all dimensions and include hidden detail. [8]

