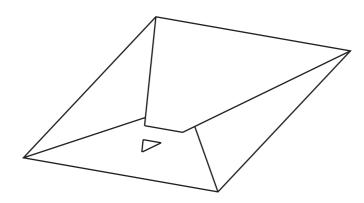
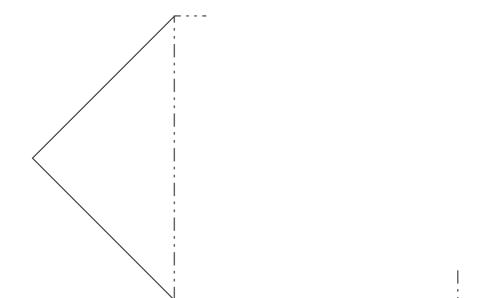
Section A Answer all	questions in this section.	/		A2 A sketch of a route around a garden is shown below.	
A1 A desi are us	gn for a folding map is shown on the ed to guide visitors around gardens	ne right. Versions of the map s, castles and farms.		FLOWERS POND	
(a) C	omplete the drawing below of the c	design for the front of the map by:			
(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	mm length of side around the letter \mathbb{M} .	[2]		
				(a) Complete the schematic drawing below of the route around the garden.	[4]
				POND ↑	
				START/END	
				STAITIZEND	
(b) T	he letter M is die cut. Use a sketch	and notes to show what is meant by 'die	cutting'. [2]	(b) State two ways of making the schematic drawing clearer to understand.	
				1	
				2	[1] For
					Examiner's use
		_			
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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.

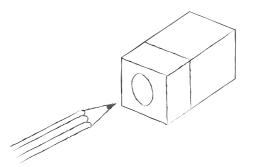
	2014	2015	2016
sales	800	400	600

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

[4]

Section B Answer either question B4 or B5.	hole for chimney		(c) The play house is made		
B4 A sketch of a child's play house is shown	on the right.		(i) Draw a sectional vie	ew of corrugated cardboard.	[3]
(a) Complete the following orthographic	views of the play house.				
(i) the front view	[5]		(") O I (
(ii) end view	[4]		(ii) Complete the list bel house.	low to show the equipment required to cut	out a window in the play
(iii) plan	[4]		1. Cutting mat		
(b) Add the projection symbol in box A.	[3]		2		[1]
			3		[1]
			(iii) Market testing has s easily.	shown that the area around the bottom of the	he cut out windows tears
front view	end vie	PW	Use sketches and no by using the corruga	otes to show a method of strengthening the ated cardboard removed for the window.	e bottom of the opening [4]
					For Examiner's use
plan	Box A				
	BOXA				
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B5 A sketch of a pencil sharpener case is shown on the right.



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

[8]

[7]

+VP1

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

(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

- 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]

