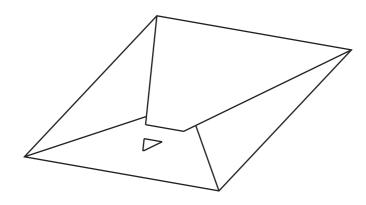
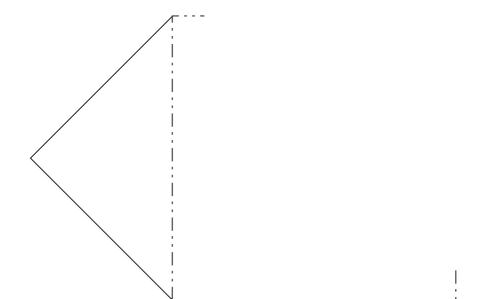
Section A Answer all	questions in this section.			A2 A sketch of a route around a garden is shown below.	
A1 A designare us	gn for a folding map is shown on th ed to guide visitors around gardens	te right. Versions of the map s, castles and farms.		POND	
(a) C	omplete the drawing below of the d	lesign 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 M.	[2]		
				(a) Complete the schematic drawing below of the route around the garden.	[4]
				POND	
				START/END	
		ı			
(b) TI	ne letter i is die cut. Use a sketch	and notes to show what is meant by 'die o	cutting'. [2]	(b) State two ways of making the schematic drawing clearer to understand.	
				1	[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.

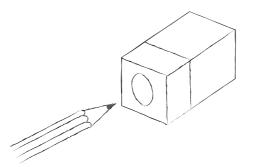
	2014	2015	2016
sales	800	400	600

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			ay house is made from corrugated cardboard.		_
B4 A sketch of a child's play house is shown of	on the right.		(i) Dr	aw a sectional view of corrugated cardboard.	[3]	
(a) Complete the following orthographic	views of the play house.					
(i) the front view	[5]		(") 0			
(ii) end view	[4]			implete the list below to show the equipment required to use.	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]	
				arket testing has shown that the area around the bottom sily.	of the cut out windows tears	
front view	end vie	w	Us by	e sketches and notes to show a method of strengthenin using the corrugated cardboard removed for the window	g the bottom of the opening v. [4]	
					For Examiner's use	
plan	Box A					
	Box					_
						_
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Centre Number	Candidate Number	Candidate Surname		Other Names	[Turn over	

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.

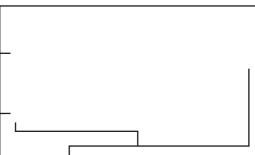
[8]

[7]

+VP1

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

e 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]
--	--	--	--	--	--	-----

- 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]

