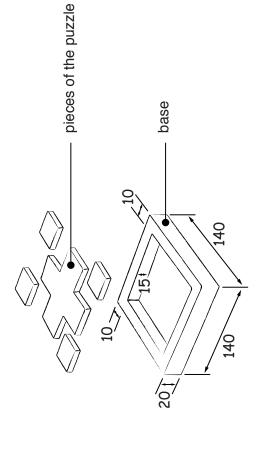


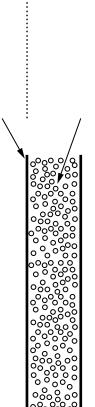
Sheet 2 of 2 The shape sorter is available in four different colours. The 2014 sales for the four different coloured shape sorters is shown in the table below. Draw a pie chart on the centre lines below to show the 2014 sales of the shape sorter. Use colour and labels to enhance the appearance of the drawing. For Examiner's use [Turn over[3] $\overline{2}$ A line drawing of an elliptical shape has been found on the internet and is to be used in the modified design for the top of the shape sorter. Explain how to capture this elliptical shape from the internet and use it in the CAD drawing. green (c) A modified design for the top of the shape sorter is to be produced by CAD. 750 Complete the words below to show the meaning of the word CAD. yellow 900 Other Names 1500 plue Computer A 450 red € <u>Q</u> Candidate Surname 2 scale drawing of the top [3] [2] [2] Candidate Number **B4** A sketch of a shape sorter is shown on the right. (a) On the centre lines below complete the 1: of the shape sorter by accurately adding: May/June 2015 1 hour a 60 side equilateral triangle; a 40 side regular hexagon. Answer either question B4 or B5. a Ø60 circle; Centre Number 0445/23 Ξ **(** € Section B

B5 A sketch of a puzzle is shown below.



- (a) The pieces of the puzzle are made from foamboard.
- (i) Label the materials on the sectional view of a piece of foamboard below.

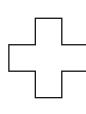
 $\overline{2}$



- (ii) Complete the list below to show three pieces of equipment that would be used to cut the foamboard.
- 1. A cutting mat
- 2.
- 3.
- (iii) Explain **one** reason why foamboard is considered a suitable material for the pieces of the puzzle.

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(b) A drawing of one of the pieces of the puzzle is shown below. Construct a scale 1:3 enlargement of the given piece of the puzzle.



(c) From the start point A draw a 1:2 scale isometric view of the base of the puzzle. Do **not** include the pieces of the puzzle.

