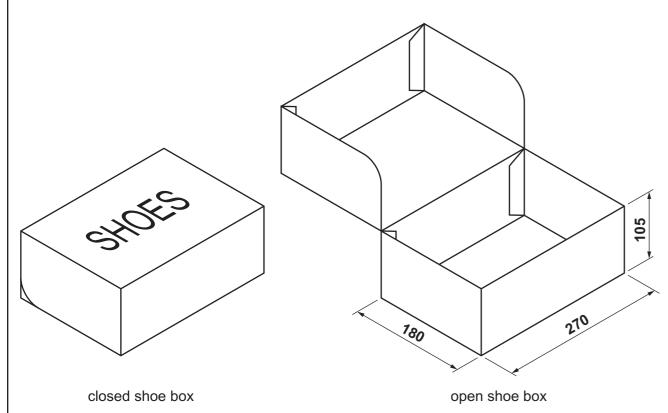
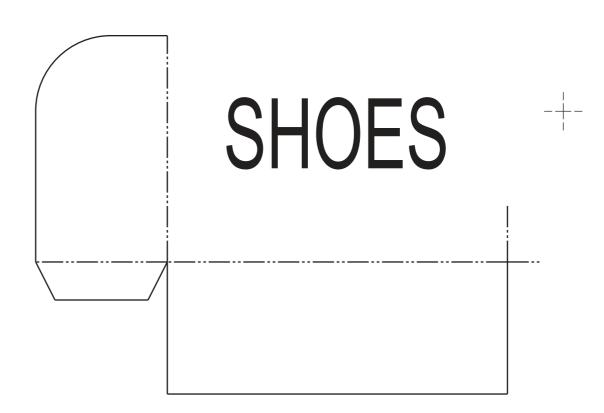


A3 A shoe box is shown below.



Complete the development (net) of the shoe box to a scale of 1:3. [11]



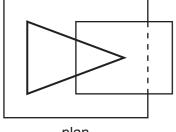
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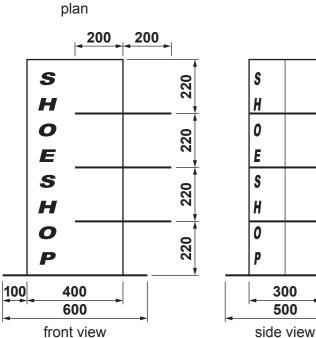
Oct/Nov 2021

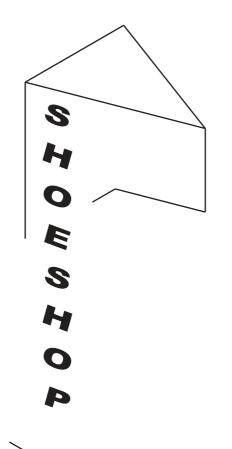
1 hour

## Section B (a) Complete the orthographic views of the shoe rack below to a scale of 1:3 by adding: Answer one question, either question **B4** or **B5**, from this section. (i) the missing lines to the end view [5] **B4** A model of a shoe rack is shown below. (ii) the missing lines to the front view (iii) the hidden detail to the front view. [2] rails made from Ø18 mm cardboard end pieces front view end view made from 15 mm tube thick Styrofoam (b) (i) State two properties of Styrofoam that make it suitable for the model of the shoe rack. (d) A prototype of the shoe rack is to be made using aluminium tubes for the rails and hardwood for the two end pieces. One of the tubes and one of the end pieces are shown below. (i) Render the end piece to look like hardwood. [3] 2......[2] (ii) Render the rail to look like polished aluminium tube. [4] (ii) Explain the purpose of making a model. .....[2] (c) The model of the shoe rack is made by hand using workshop tools. Complete the table below by naming one tool/item of equipment used for each stage of the making process. Tool/item of equipment Making process Cutting the Styrofoam end pieces to shape Smoothing the edges of the Styrofoam end pieces Securing the cardboard rails into the Styrofoam end pieces [3] 0445/52 Oct/Nov 2021 1 hour Centre Number ..... Candidate Number .....

**B5** Orthographic views of a display stand for shoes are shown below. The display stand is made from 5 mm corrugated card.







[3]

**(b)** The display stand is to be manufactured in quantities of 1000.

card.

(i) State a suitable method of cutting and creasing the corrugated

.....[1]

(ii) The SHOESHOP text is to be produced on a computer and added to the display stand after it has been assembled.

Describe **one** method of transferring the lettering from the computer to the display stand.

[4]

.....|

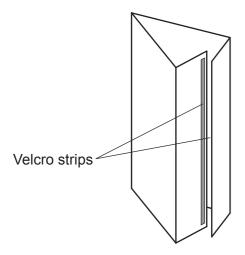
(a) Complete the isometric view of the display stand to a scale of 1:10.

Ignore the thickness of the material.

[14]

(c) The triangular section of the display stand is held together by Velcro strips as shown below.

Use sketches and notes to show an alternative method of temporarily securing the two edges of the display stand together without the use of adhesives.



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(d) The table below shows the sales of the most popular footwear in the shop over one month.

In the space below draw a bar chart to show the sales of each shoe type.

Shoe type	Number sold
Trainers	148
Boots	110
Wedges	134
Sandals	92
Slippers	76