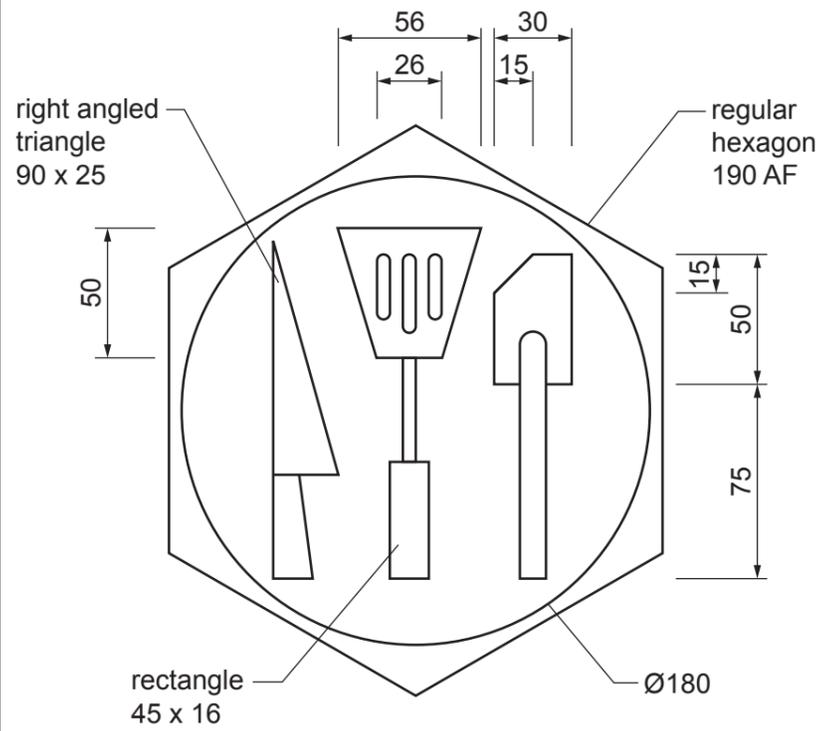


Section A

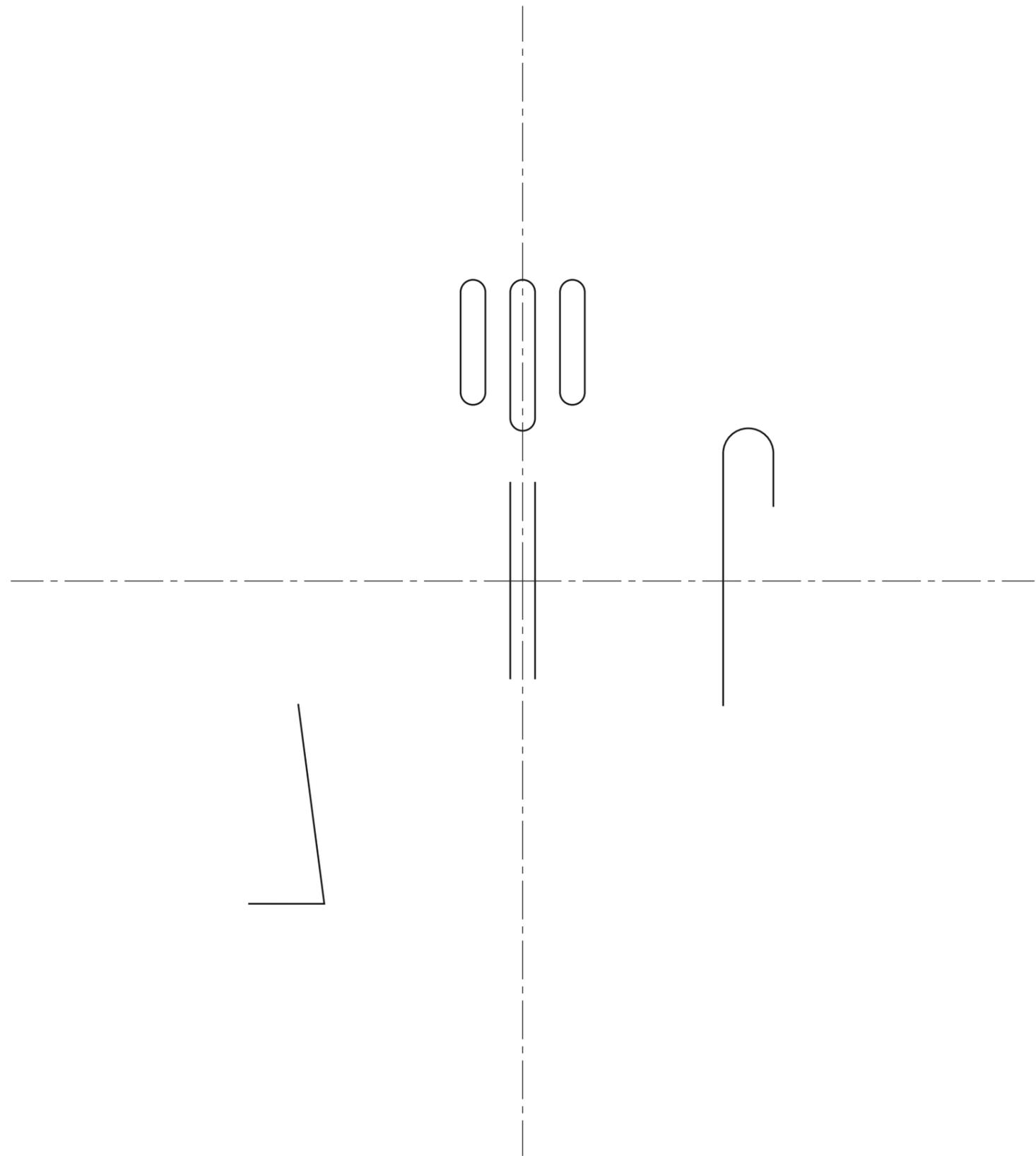
Answer **all** questions in this section.

A1 A design for the front cover of a recipe book is shown below.



Complete the full-size drawing of the design by adding:

- (a) the kitchen knife [2]
- (b) the slotted spatula [5]
- (c) the baking spatula [4]
- (d) the outer circle [1]
- (e) the outer hexagon. [3]



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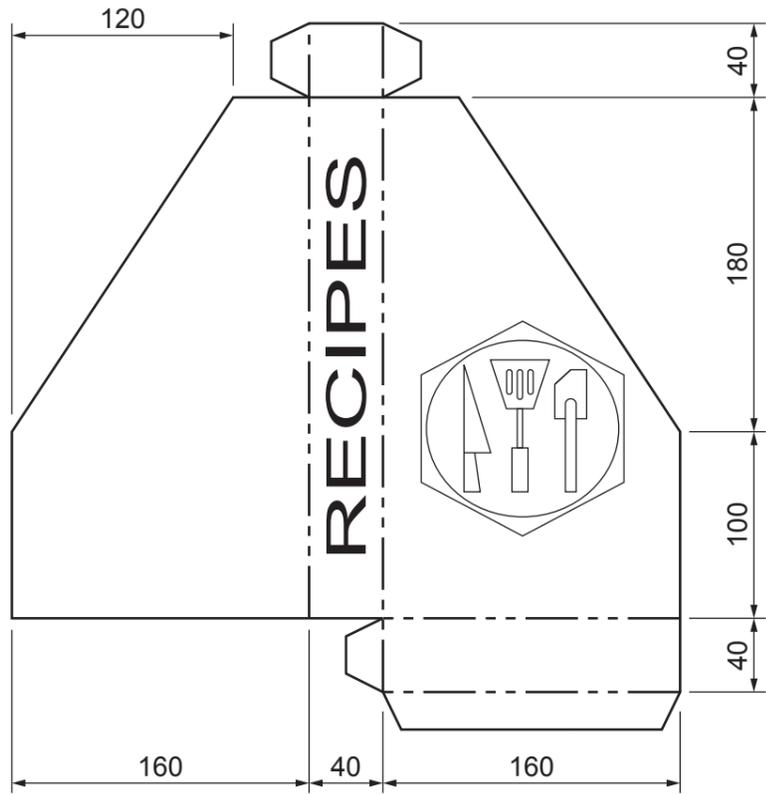
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Candidate Name

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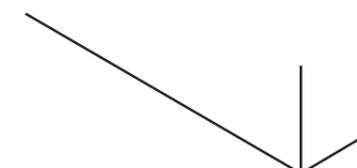
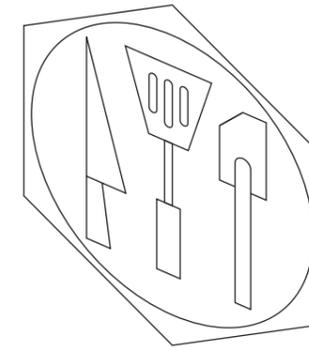
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A2 A development (net) of a box file for the recipe book is shown below.



Complete the isometric view of the assembled box file to a scale of 1 : 2.

[7]



assembled box file

A3 The box file is made from thick card.

(a) Describe a suitable method of creasing and folding the thick card.

.....

 [2]

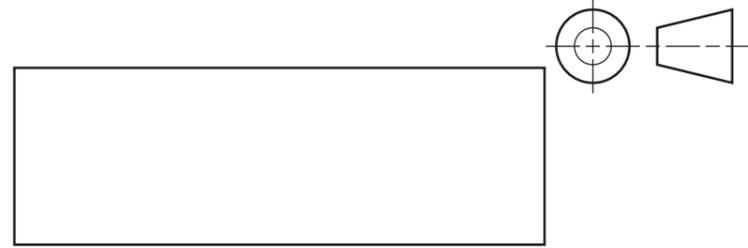
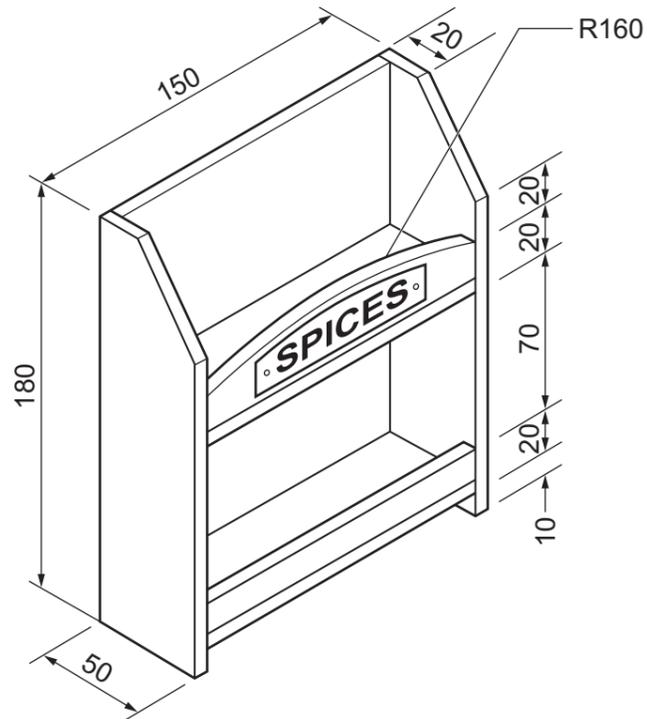
(b) Name a suitable adhesive to fix the development (net) of the box file together.

..... [1]

Section B
Answer **one** question, **either** Question **B4** or **B5**, from this section.

B4 A spice rack is shown below.

The spice rack is made from 6 mm hardwood.



plan

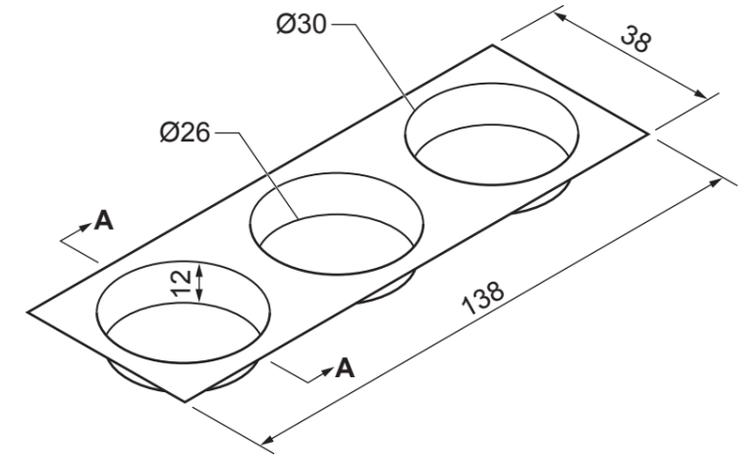


front view

(a) Complete the orthographic views of the spice rack to a scale of 1:2. [13]

side view

(b) The spice rack will have a vacuum formed insert as shown below.



(i) Complete the sectional view **A-A** through the vacuum formed insert to a scale of 2:1. [5]



sectional view **A-A**

(ii) Name a suitable thin sheet plastic for the insert. [1]

(c) The SPICES plaque on the front of the spice rack will be made from 3 mm plywood sheet using CAD/CAM.

The plaque is shown below.



(i) State **two** commands that would be used to draw the plaque design on CAD. [2]

1

2

(ii) The SPICES text will be engraved onto the plywood and the outer shape will be cut out using a laser cutter.

Describe how the laser cutter could be set up to distinguish between cut lines and engrave lines so that the plaque design is produced correctly.

.....

.....

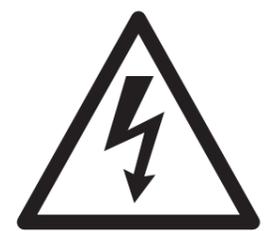
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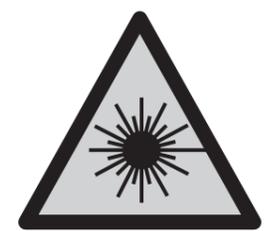
..... [2]

(d) Two safety symbols on the laser cutter are shown below.

State the meaning of each symbol.



..... [1]

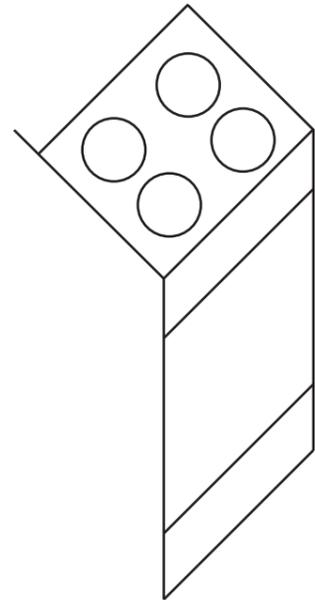
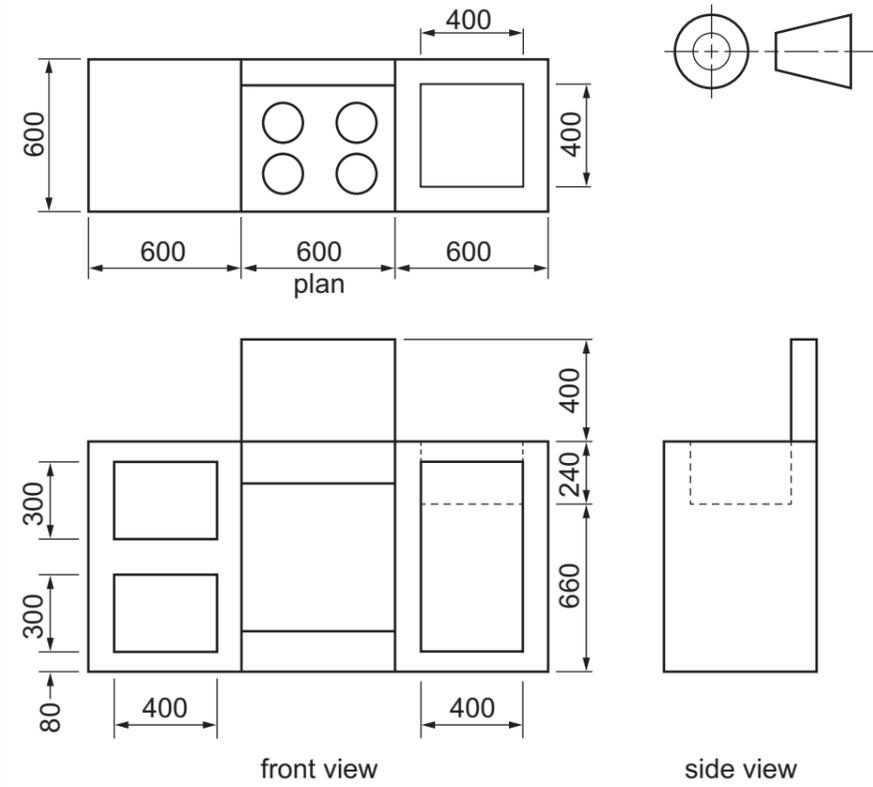


..... [1]

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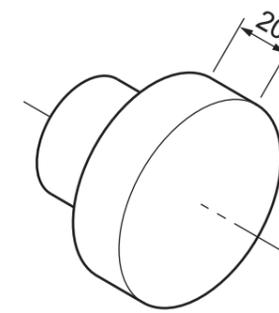
B5 Orthographic views of a kitchen workstation are shown below.



planometric view

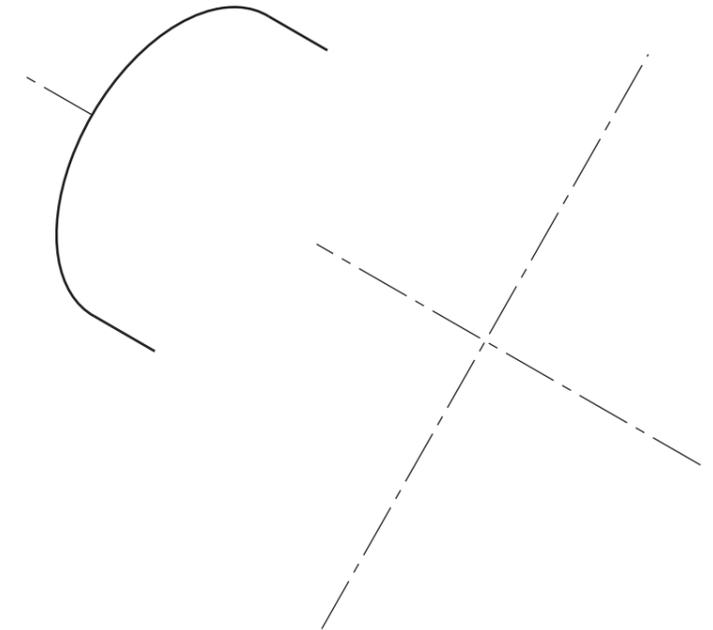
(a) Complete the planometric view of the kitchen workstation to a scale of 1 : 20. [12]

(b) A handle for one of the cupboard doors is shown below.

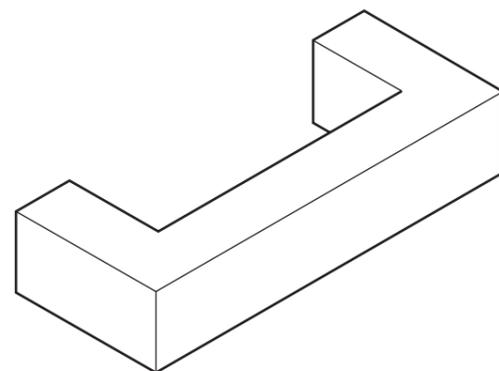


Complete the full-size drawing of the handle by adding:

- (i)** the end ellipse of the outer section
Major axis 86, Minor axis 50 [5]
- (ii)** the thickness of the outer section. [2]



(c) A handle for one of the drawers is shown below.



Complete the estimated two-point perspective view of the handle. [6]

