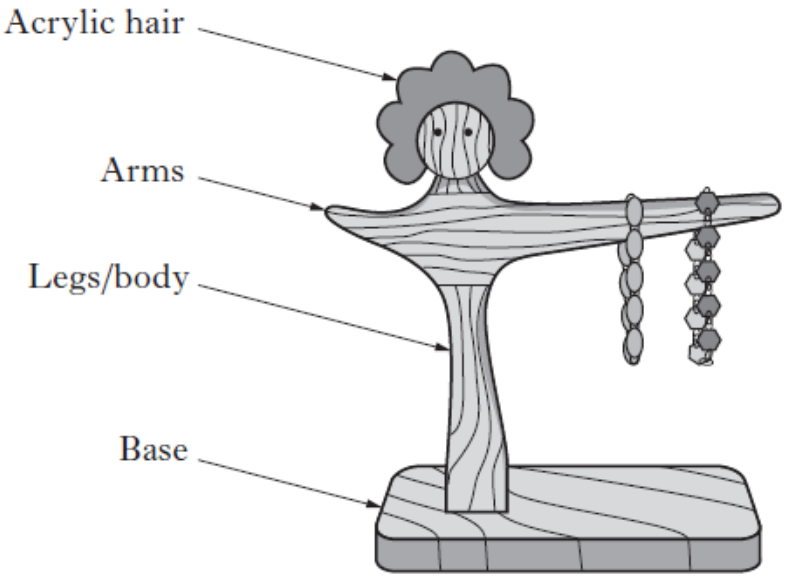
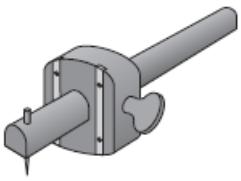
# November Homework

1) A pupil's design for a jewellery stand is shown below.

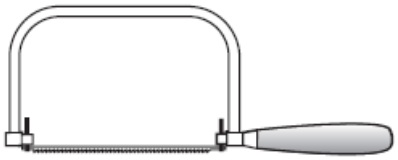



(a)A list of tools used to manufacture the jewellery stand are shown below.

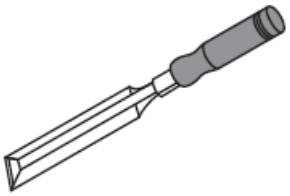
| | | |
|---|---|---|
| **Steel rule** | **Bevel edged chisel** | **Try square** |
| **Marking gauge** | **Coping saw** | **Flat file** |



Tool (A)



Tool (B)



Tool (C)

From the list above select the name of each tool.

(i)Tool A _____

(ii)Tool B _____

(iii)Tool C _____

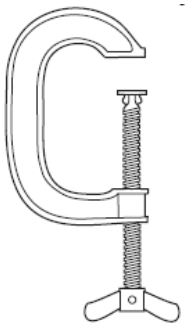
(iv) State a safety precaution when using tool **C.**

_____

(b) (i)A white wood glue was used in the joints. Tick the name of this glue

- ☐ Acrylic cement
- ☐ Epoxy resin
- ☐ PVA
- ☐ Impact adhesive

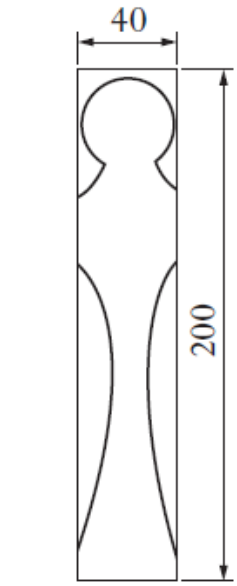
(ii) The tool below was used during the manufacture of the jewellery stand. Tick the name of this tool.



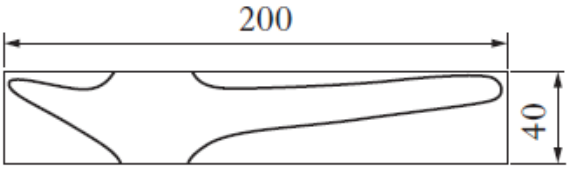
- ☐ Machine vice
- ☐ G clamp
- ☐ Bench vice
- ☐ Sash cramp

(c)Notes and dimensioned sketches of each party of the jewellery stand are shown below.

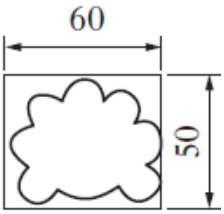
All wood is 20mm thick.



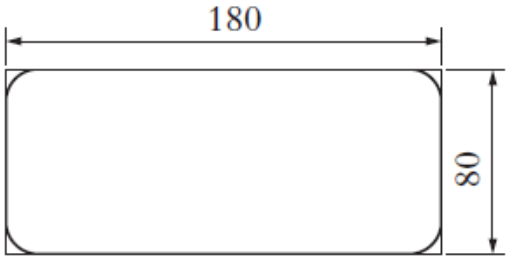

Wooden legs/body




Arms




Acrylic hair

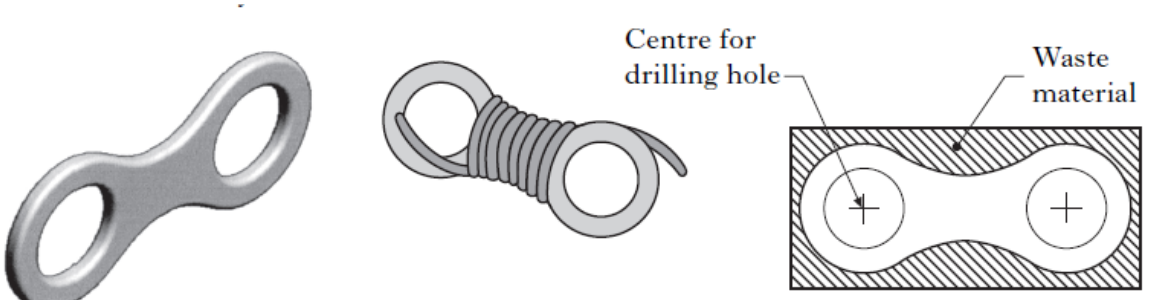



Wooden base

Use the information to complete the table shown below.

| Part | Quantity | Length | Breadth | Thickness | Material |
|---|---|---|---|---|---|
| Legs/Body | 1 | | 40 | 20 | Pine |
| Arms | 1 | | | | Pine |
| Base | | 180 | | | Pine |
| Hair | | | 50 | 3 | |

2) A cable tidy is shown below.



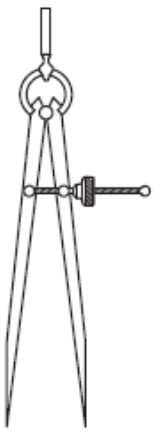

**Cable tidy marked out on mild steel**

The cable tidy is manufactured from mild steel.

(a)Mild steel is a ferrous metal. Tick the statement that best describes a ferrous metal.

- ☐ It does not rust
- ☐ It does not conduct electricity
- ☐ It contains iron and is magnetic
- ☐ It is golden in colour

(b) The tools shown below were used in the manufacture of the cable tidy.



Tool (A)

Tool (B)

Tool (C)

**Spring dividers** **Scriber** **Odd leg callipers**

**Centre punch** **Ball pein hammer** **Hide mallet**

From the list above select the name of each tool.

(i)Tool A _____

(ii)Tool B _____

(iii)Tool C _____

(c)The mild steel was plastic dip coated

Several steps in the plastic dip coating process are listed below in the **wrong** order.

- Remove from the fluidiser and allow to cool
- Clean the metal to remove grease and dirt
- Dip the metal into the fluidiser
- Heat the metal

(i)State which step is carried out **first.**

_____

(ii)State which step is carried out **last.**

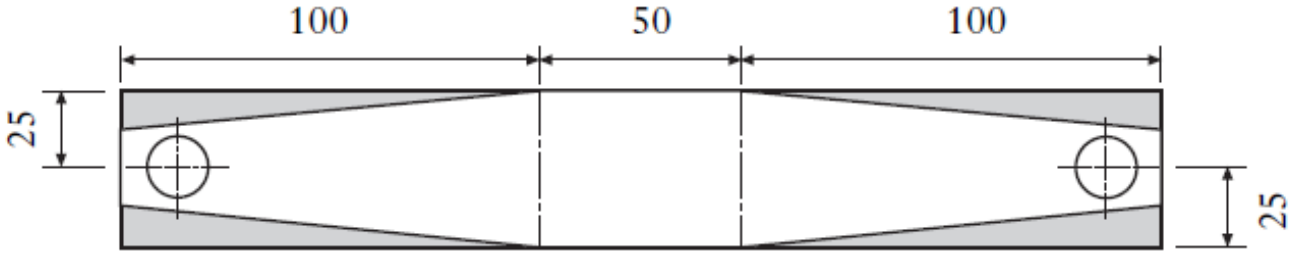
_____

(iii)Other than plastic dip coating, state another finish that could be applied to the mild steel.

_____

3) A table lamp is shown below.


(a)The sketch below shows the body marked out on mild steel




State the minimum amount of material required to manufacture the body.

Length of material_____

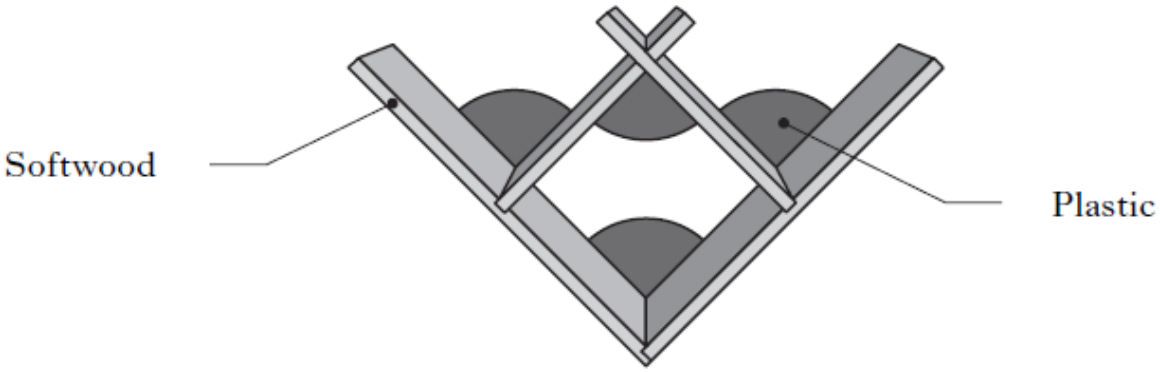
Width of material_____

(b)A scriber rather than a pencil was used to mark out the lamp on the mild steel.

State a reason for using a scriber rather than a pencil.

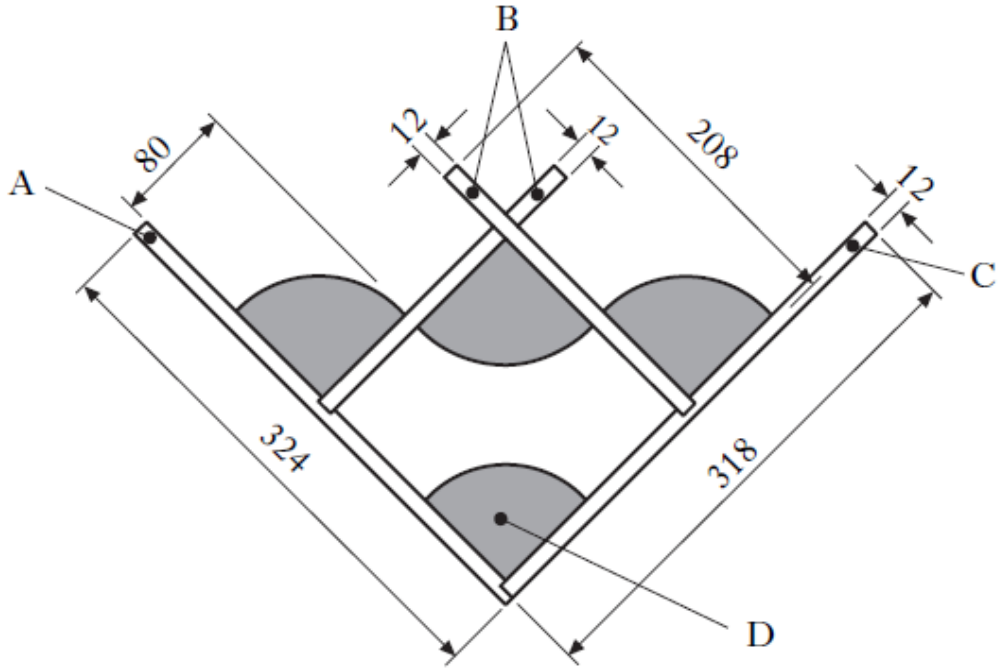
_____

4) A wall mounted storage rack for computer games is shown below.




All softwood 12 mm thick

A working drawing and incomplete cutting list are shown below. Complete the cutting list




| Part | Quantity | Length | Breadth | Thickness | Material |
|---|---|---|---|---|---|
| A | 1 | | 140 | 12 | |
| B | 2 | 208 | 140 | | Softwood |
| C | 1 | | 140 | | Softwood |
| D | | 80 | 80 | 4 | Plastic |