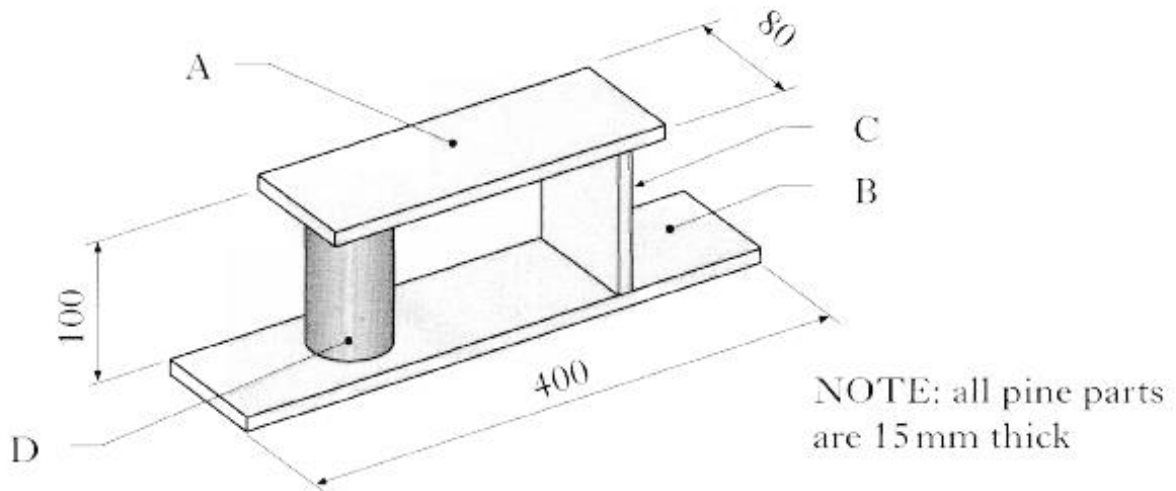


# October Homework

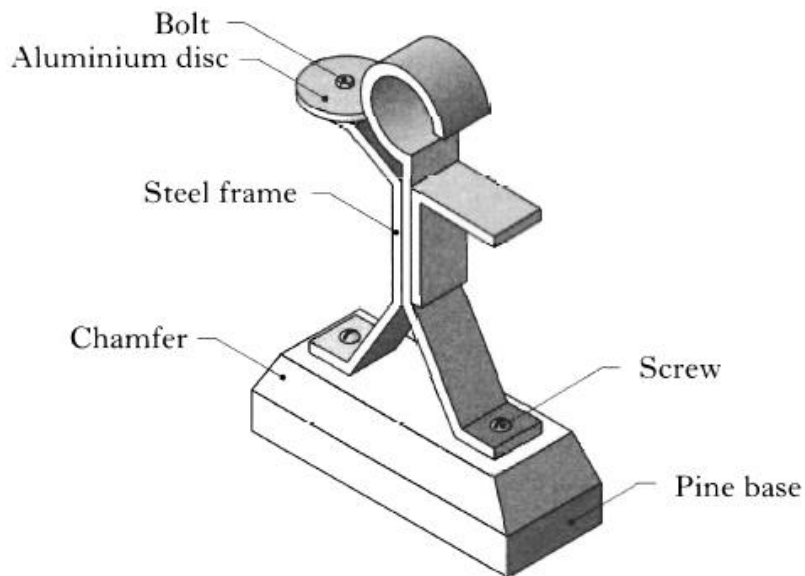
1. A shelving unit is shown below.



Complete the cutting list below.

Part	Quantity	Length	Breadth	Thickness	Material
A	1	250		15	Pine
B	1		80		Pine
C		100	80		Pine
D			Ø60		Beech

2. A pupil's design for a sports trophy is shown below.



(a) The tools shown below were used during the marking out of the pine base. Tick the name of these tools.

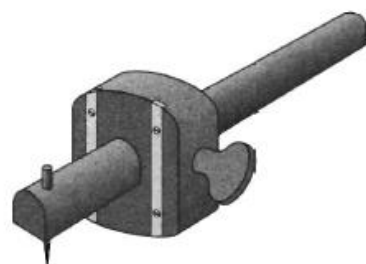
(i)

- Marking gauge
- Try square
- Odd leg callipers
- Steel rule



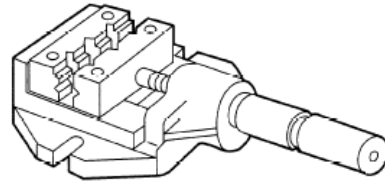
(ii)

- Marking gauge
- Try square
- Odd leg callipers
- Steel rule



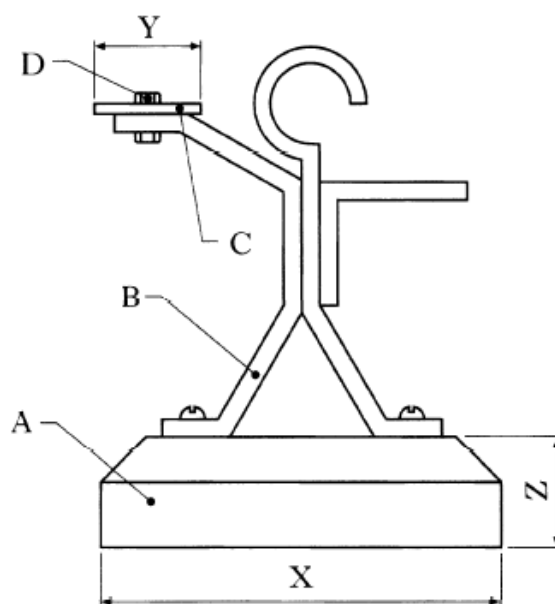
(b) The tool shown below was used to hold the steel bar while drilling. Tick the name of this tool.

- Bending bars
- Bench vice
- Hand vice
- Machine vice



(c) Part of the cutting list for the trophy is shown below.

Part	Description	Material	Quantity	Length (mm)	Breadth (mm)	Thickness (mm)
A	Base	Pine	1	90	40	25
B	Frame	Steel	1	75	10	3
C	Disc	Aluminium	1	25	25	2
D	Bolt	Steel	1	8	3	3



Use the cutting list to complete the following.

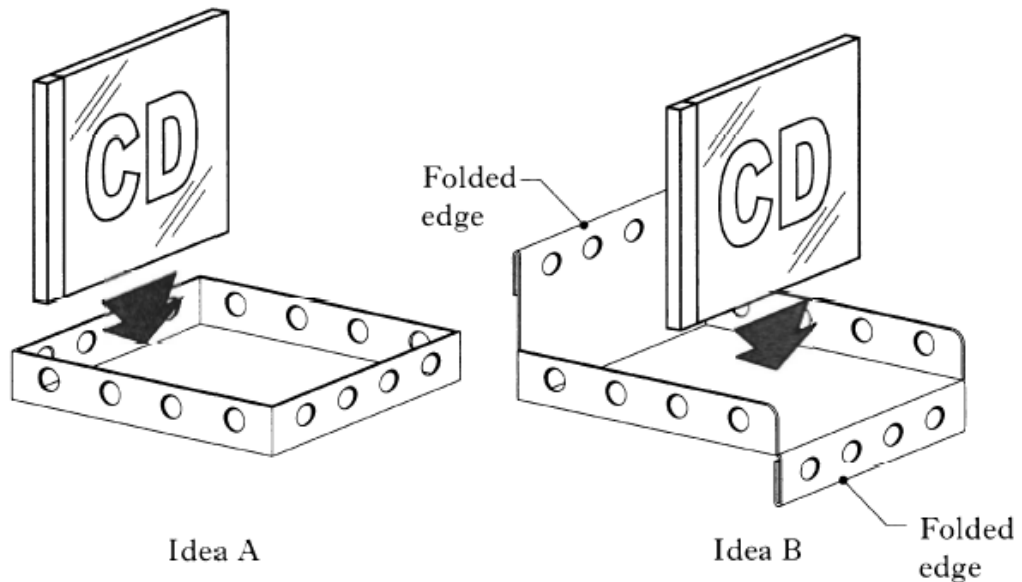
(i) Part B is made from \_\_\_\_\_

(ii) The size of X is \_\_\_\_\_mm

(iii) The size of Y is \_\_\_\_\_mm

(iv) The size of Z is \_\_\_\_\_mm

3. Two ideas for a CD storage rack made from sheet steel are shown below.

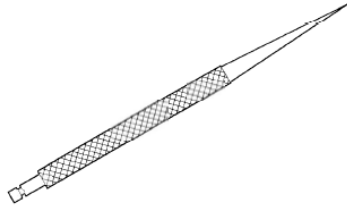


(a) State a functional and safety reason why the designer chose to develop Idea B.

Functional reason \_\_\_\_\_  
\_\_\_\_\_

Safety reason \_\_\_\_\_  
\_\_\_\_\_

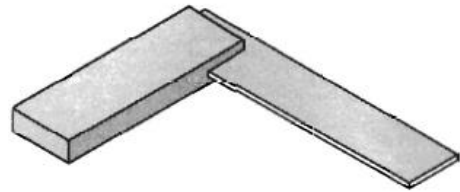
(b) The tools below were used in the manufacture of the CD storage rack. State the name and purpose of each tool.



Name\_\_\_\_\_

Purpose\_\_\_\_\_

\_\_\_\_\_



Name\_\_\_\_\_

Purpose\_\_\_\_\_

\_\_\_\_\_



Name\_\_\_\_\_

Purpose\_\_\_\_\_

\_\_\_\_\_



Name\_\_\_\_\_

Purpose\_\_\_\_\_

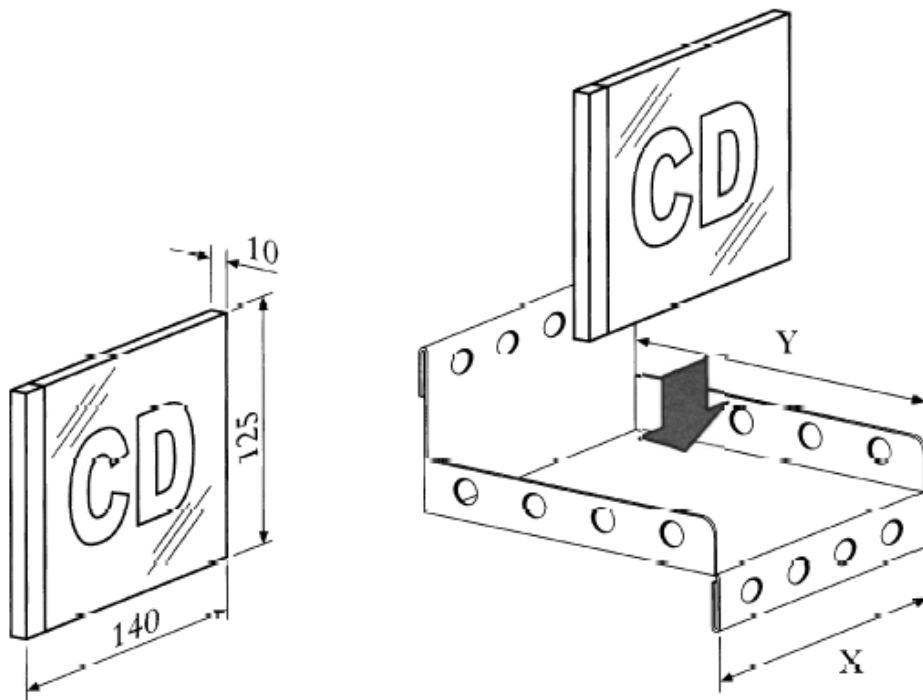
\_\_\_\_\_

(c) A finish was applied to the steel. State two reasons for applying a finish. #

1. \_\_\_\_\_

2. \_\_\_\_\_

(d) The dimensions of a CD box are shown below.



(i) State the smallest size for X. \_\_\_\_\_mm

(ii) The rack stores 10 CD's

State the smallest size for Y. \_\_\_\_\_mm